

*A Catalog of Rare
Beautiful and
Curious Plants*

1957

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U. S. Department of Agriculture

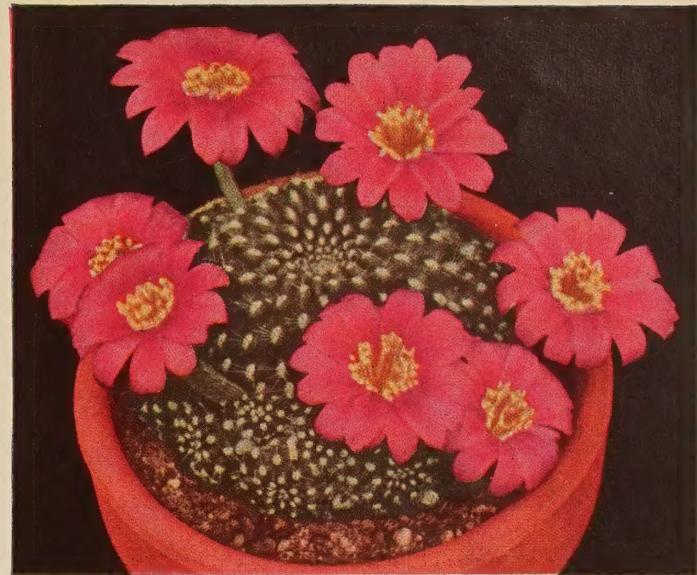


ORANGE GLORY

This handsome Paramount Hybrid is illustrated $\frac{1}{2}$ natural size. A free flowering variety blossoming in late spring and summer. A vigorous rooted, easily grown plant liking a rich porous soil and full sun Stock limited.....

\$2.50

For other Paramount Hybrids see page 27.



PINK CROWN CACTUS

This lovely almost spineless cactus, Rebutia violaciflora, flowers over a long period in spring. It may be had in flower as early as January and often into May. Very easily grown in sun or part shade it should be kept moist but not wet. Clustered specimens \$1.25 Nice small flowering plants.....

75c

JOHNSON

**CACTUS
GARDENS**

PARAMOUNT, CALIFORNIA

**SUCCULENTS
and CACTUS**

from All Over the World





VIEW IN NURSERY

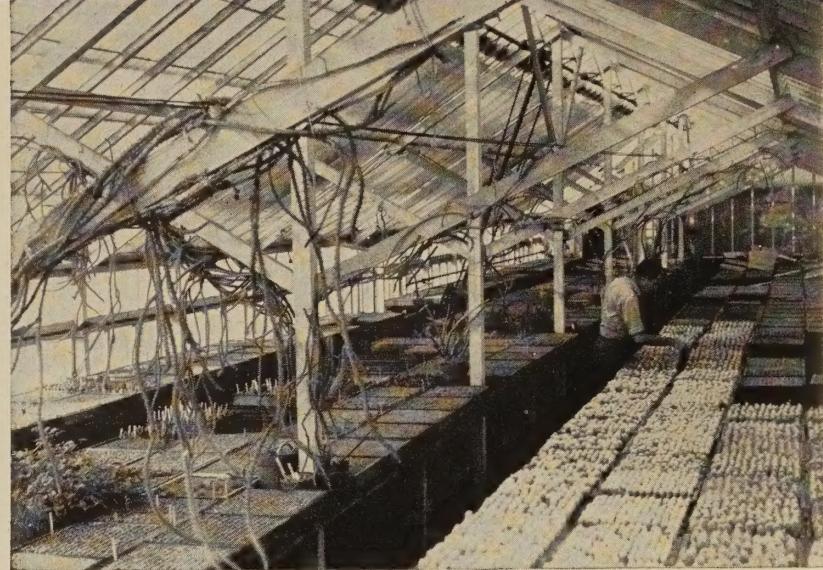
To the enthusiastic our growing grounds are of great interest. Here he may see many rare and unique plants that are not in our catalogs as it is impossible to picture or list more than a sampling of the hundreds of items grown. When you visit California visit Paramount.

1876-1957

OUR collection of cacti and succulents is one of the largest in the world, the result of almost 50 years of collecting and propagating. Rare plants can seldom be found offered in catalogs. Most of the large collections known in the world are in the Botanic Gardens or in the hands of private collectors and are not available to the average collector.

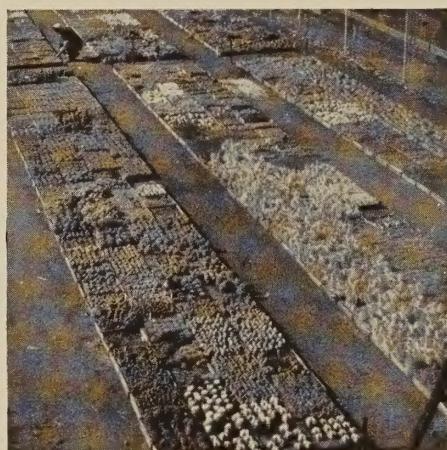
Our collection is an available one, well known to fanciers throughout the world. As new plants are secured they are propagated and eventually are offered in our catalogs which are issued yearly. We have hundreds of new or rare items which are in the process of being multiplied. Some can be increased fairly rapidly, two to three years; others may take many years.

There is a common belief that cacti are quickly and easily propagated. Nothing could be farther from the truth!



VIEW IN SEEDLING GREENHOUSE

Young cacti and succulents from the time the seed is sown until they are ready for their first transplanting require far more moisture and care than at any other time during their lives. After the seed is germinated it is brought into this drier house and when ready is transplanted into boxes called "flats" which you see on the benches.



GROWING YARD

Larger plants are grown in boxes out of doors. Here they grow under as nearly natural conditions as possible developing sturdy root systems and having a good winter's rest thus getting a fine start for spring and summer flowering in your garden or window.

Shipping to You!

All shipments are made by **Parcel Post** which delivers directly to your door. On orders of \$5 or more we pay all the postage in the United States and possessions or Canada. On orders of \$2.50 to \$5 please add 10% extra for packing and postage. On orders under \$2.50 add 50c for handling.

The break-even point on orders is now over \$4. On orders over \$3 you may choose 10% value extra in free plants.

ORDERS MICROFILMED

So that we may return your original order to you with your shipment all orders are microfilmed. Thus you can check your order at once to see that it is completed correctly. The microfilm is filed here for future reference.

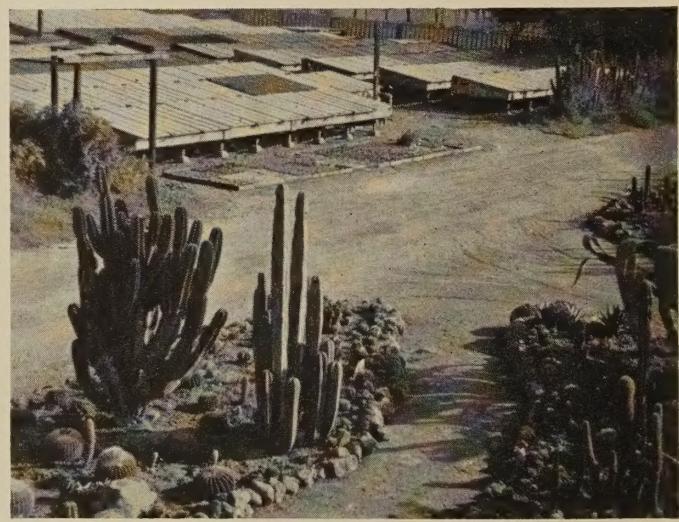
VISITORS TO OUR NURSERY

You are cordially invited to visit our nursery which is open from 9:00 A.M. to 5 P.M. daily including Sunday. Paramount is 20 miles from City Hall, Los Angeles. It can be reached by car via Santa Ana Freeway to Paramount take-off, 6 miles south to Jackson St., 4 blocks west to Garfield Ave., 2 blocks south to Nursery. Telephone Metcalf 3-7315.



VIEW IN SUCCULENT AND CACTUS HOUSE

Succulents and cacti are grown in this house which is open at all times to our visitors. A great many succulents are grown from seeds, some including most of the commonest kinds are grown from cuttings. A few can be grown from leaf cuttings. Cacti are mainly grown from seed and take from two to five years or more to reach flowering size.



SPECIMEN CACTI AND GROWING FRAMES

Across the road is seen part of a block of growing frames in which three-quarters of a million small cacti are growing. Young cacti need constant attention until they attain their second or third year. They must develop a vigorous root system which they do best in strong light. The frames bring the plants right up to the light and protect the plants from excessive rain and cold.

SUCCULENTS

NEW and OLD



WHAT are Succulents? The term is used to identify a great group of plants which in the wild state grow in regions of limited rainfall or in regions sharply defined into dry and wet seasons. They belong to many plant families and because of their diverse origins assume many odd or unique forms. They all have one character in common, the storage of water to tide them over the dry seasons. The storage may be in succulent leaves, stems or roots. The thick juicy leaves or stems makes the term "succulents," appropriate for them. Cacti are also succulents but as they belong to a single unique family, generally spiny in character, they are always listed separately. Succulents are found almost everywhere but the most interesting ones come from Africa, Madagascar, Canary Islands, and Mexico. They reach their greatest profusion in quite temperate regions where winters seldom get much below freezing. They are not profuse in the hottest deserts but seem to prefer mountainous regions and plateaus.

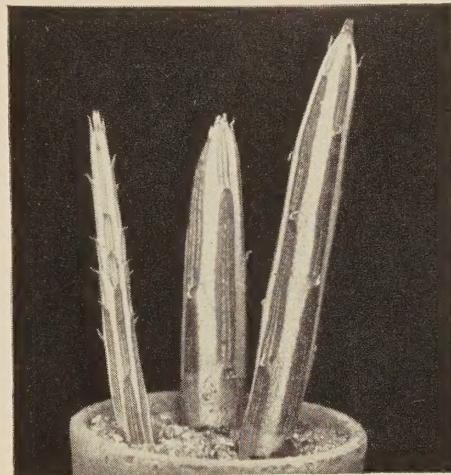
Culture of Succulents

Succulents are mostly quite at home in the window garden and in warm regions are splendid for rock gardens, window boxes and borders being very colorful.

SOIL. They like quite porous or well drained soils being impatient of wet feet. Clay soil particularly for pots is too retentive of water. Out in the garden it is not too important. A suitable potting soil may be made up of 1 part easily crumbled loam, 2 parts fairly coarse, clean sand and 1 part peat moss or leafmold.

WATERING. In watering be temperate, particularly just after they have been planted. It takes a month or more to grow new roots and during this time they should never be more than just moist. Succulents do not wilt like ordinary plants and do not suffer for lack of water. Water afterwards only when soil is dry.

SITUATION AND VENTILATION. They need a light location. South west or east windows are best. They like fresh air and on mild days give a little ventilation. Many beginners are afraid to admit fresh air to their plants.



PEPPERMINT STICK

The brightly striped *Senecio gregorii* is a fine addition to our succulents. It increases by underground stolons and grows quickly. The plants become tall, forming nice pots. Generous treatment. Each.....

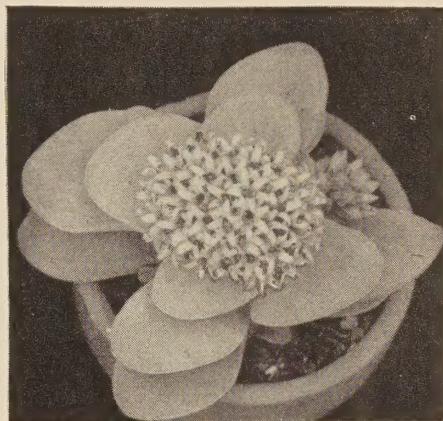
60c



OAK LEAF

A form of *Kalanchoe beharensis* with cut leaves. A much more graceful plant than the old form. Grows well under many kinds of treatment. A handsome specimen with rich chestnut colored velvety leaves. The new leaves are silvery giving a pleasing effect. Each.....

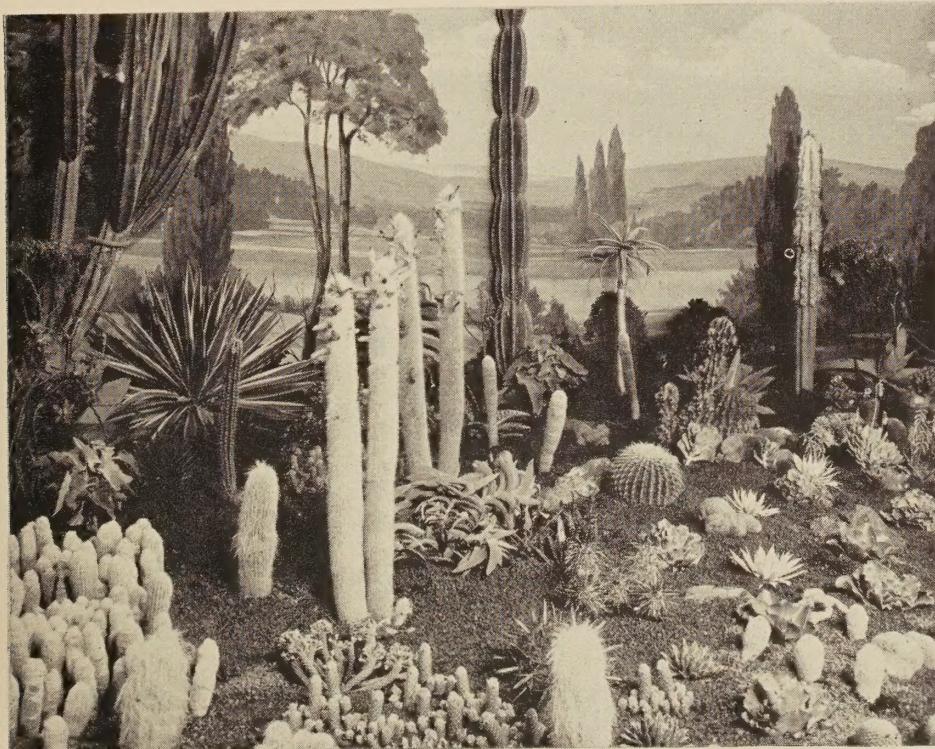
\$1



MORGAN'S PINK CRASSULA

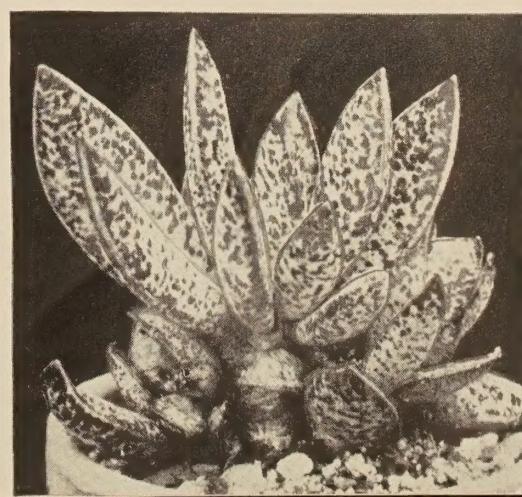
A handsome hybrid raised by Dr. Morgan who has long been one of the foremost fanciers in the U. S. Many fine things have been credited to him. This hybrid is very pretty both as a plant and in flower. Flowers long lasting, pink in color. Each.....

\$1



Our Exhibit at International Flower Show

A corner of our exhibit of 1955. The tall white cacti in left center are Silver Torch, *Cleistocactus hyalacanthus*, the tall Cerei in background are Dayam's Tree, Flowering Tree and at right Wooly Torch.



ADROMISCHUS TRIGYNUS

A very pretty and brightly spotted small species recently introduced. The ground color is silvery with dark maroon spots. An easily grown species more dwarf than Calico Hearts and with longer elliptical leaves. It likes some shade from mid-day sun. Do not keep too dry. Each.....

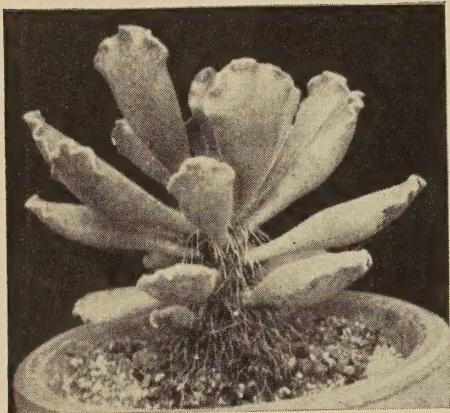
75c



CHENILLE PLANT

Each leaf and stem clothed with soft velvety hairs, with every leaf margined in dark red. Colorful the year around, it is brightest during fall and winter months. Flowering in midwinter with large waxy bells of rich crimson, *Echeveria pulvinata* is one of our prettiest succulents. Sandy soil with leafmold, watering when dry. Likes a cool, light airy

40c



ADROMISCHUS CRISTATUS

A charming plant with hairy trunk like a small tree. Leaves fat, dark green the tips waved. Trunk clothed with bright brown roots. Partial shade moderate watering. Each....

50c

HOYA

Handsome flowered Asclepiads which grow and blossom well in partial shade. Flowers pink or white in large clusters. Treatment as for African Violets.

Wax Vine. *Hoya carnosa*. See page 7.

Hoya bella. Lovely in hanging baskets or pots. Bushy small plants with the most entrancing soft pink blossoms in nice bunches. Exquisite. Each.....

\$1

Hoya keyssii. Creamy blossoms.....

\$1

Hoya motskei. White, red corona.....

\$1

Hoya imperialis. Tall vine, Pink.....

\$1.25

Hoya paxtonii. Similar to *H. bella*.....

\$1

CURIOSITY COLLECTION E1.

The six plants below. A colorful selection to brighten up your kitchen or breakfast nook. Easily grown in pot or bowl. All six, \$2.25 value, only.....

\$1.60

PEANUT CACTUS

Large, bright red flowers. Easily grown, fast forming many headed specimens. Each.....

35c

PINCUSHION

Flowering when small, it grows quickly in sun or part shade. Each.....

35c

BIRD'S NEST

Yellow flowers. Long slim nipples with curling yellow spines. Large.....

50c

RED DRAGON FLOWER

Red and black flowers. Cluster forming....

35c

CHRISTMAS CHEER

Grows anywhere. Colors best in dry poor soil. Each.....

35c

FLOWERING PINCUSHION

The Mammillarias are very satisfactory for the beginner. Easily grown, flowering in spring with handsome carmine flowers. Nice plants.....

35c



ARAB'S TURBAN

Crassula hemisphaerica

A very odd plant with its opposite pairs of leaves tightly reflexed into a columnar mound. Grows easily its slender fibrous roots enjoying a sandy or spongy soil with peatmoss or leafmold and moderate watering. Very bright but shady position.....

35c



PAINTED LADY

Pretty rosettes of gray-green, each leaf powdered and tipped with red. Quickly forms clusters of babies and in summer flowers profusely with lovely orange bells as the picture shows. *Echeveria derenbergii* does well in a sandy soil with moderate watering and plenty of ventilation. The colors are brightest in a sandy soil. Each.....

40c

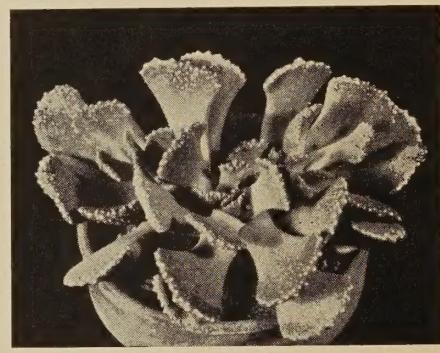
ADVICE TO PATRONS

The best months to order **Succulent** plants are the cool spring and fall months when they will arrive in excellent condition. During the hot summer months of July, August and early September it is difficult to ship them without loss of leaves. We want you to be pleased with your plants and during these hot months the risk of loss is considerable unless they go via Air Mail. Air Mail is 80c per pound or fraction thereof anywhere in the U. S. or possessions. 7 Succulents average a pound. Plus 35c Special Delivery per shipment.

Cacti are not bothered by summer heat in shipping and hence may be shipped at any time.

JOHNSON'S CACTUS FOOD

12 ounce bag.....50c
32 ounce bag.....\$1.00



GIANT JEWEL PLANT

Nanarthus malherbii is related to the Jewel Plant but much larger. This plant may reach 3 inches across. The leaves are studded with white bosses. Clusters, the leaves light brown often tinged purple. Easily grown. Keep on dry side. Each.....

40c



SPLIT ROCK

Strange African mimicry plants closely resembling the stones among which they grow. *Pleiospilos nelii* may grow to 2" in diameter with bright blossoms in spring. Sunny windows, fresh air, sandy soil. Easily grown. Small 35c. Specimens.....

50c



SENECIO SCAPOSUS

A silver white plant forming rosettes of long tubular leaves covered with close wool. A fine border plant in warm regions. Tall spikes of large yellow flowers. 50c

WOOLY SAND ROSE

The tiny *Anacampseros tomentosa* has its thick leaves covered with wool. All the *Anacampseros* are interesting for the fancier as there are many kinds quite different in habit.....

40c

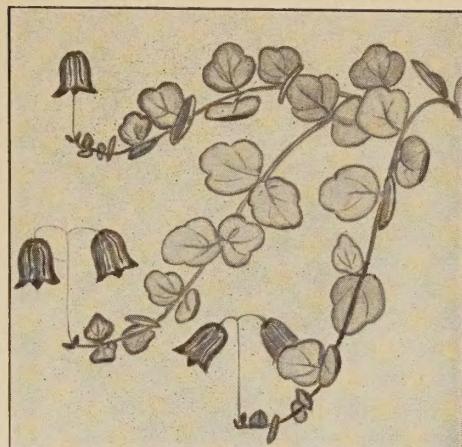
The six plants below. A colorful selection to brighten up your kitchen or breakfast nook. Easily grown in pot or bowl. All six, \$2.25 value, only.....



**CHRIST THORN**

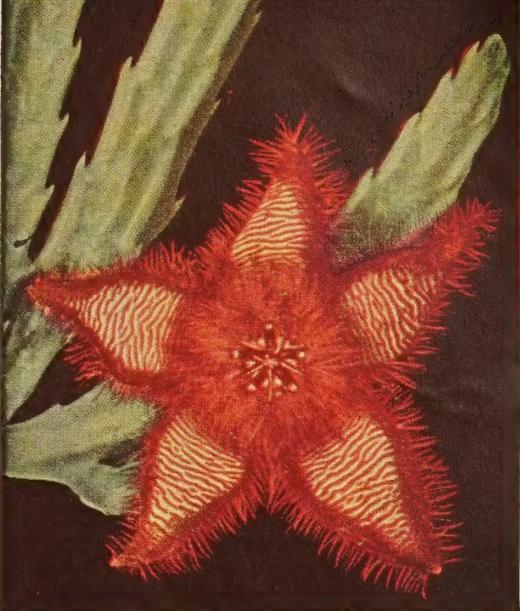
Crown of Thorns or *Euphorbia splendens*. Everyone succeeds with it. In blossom from February to November. Likes a rich soil and generous waterings. In summer a little Cactus Food will keep it blooming indefinitely. Sun or part shade. Potted plants 10" to 12" 60c. 4" to 6" each.

40c

**CORAL BELLS**

A charming creeping or hanging plant that does splendidly in shady places. It roots as it goes. *Kalanchoe uniflora* is exceptionally easy to succeed with. Likes lots of water and a porous soil. A good soil is leafmold and sand or peat moss and sand or loam. Flowers like small red Chinese lanterns in the spring. Fr. flowering. Nice.

40c

**HAIRY STARFISH**

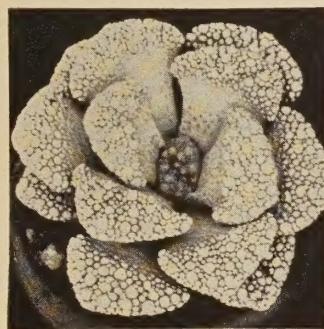
Lovely bright desert stars! *Stapelia hirsuta* is a fascinating succulent for the window garden flowering the first year. Give it a sunny or partly shady location. Likes a porous soil. Grows during hot weather when it can take more water. Keep on dry side in winter. Potted plants 60c and

40c

EVERBLOOMING**CHRIST THORN**

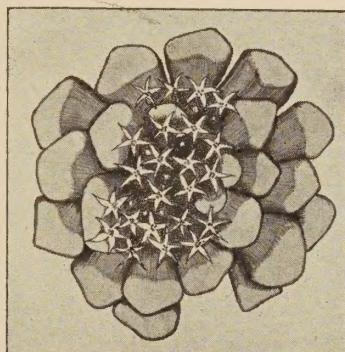
This splendid variety, *Euphorbia hislopi*, flowers all the year much more abundantly than the old species. The flowers are deep red. The plant is more slender and bushy. A fine introduction. Each.....

50c

**JEWEL PLANT**

A lovely small mimicry plant, *Titanopsis calcareum*, often becomes highly colored in winter. The jewel-like leaves are roughly pebbled. Winter blooming, the blossoms yellow. Likes a sunny window. Moderate water. Flowering size.....

35c

**FOAM FLOWER**

A rare and unique mimicry plant from South Africa. *Crassula mesembrianthemopsis* has triangular, truncate, blue white leaves the tips like fine sandpaper. The plant lies close to the soil, the base of the leaves buried. Flowers in a compact head, white, quite fragrant borne in November or December. Easily flowered. A quite open or sandy soil and very moderate watering. Keep in a sunny or very light position. A fall and spring grower. Keep on dry side in summer. Not difficult. Flowering size.

50c

**KALANCHOE ORGYALIS**

The upper surface of the leaves is covered with fine golden hairs the under silvery white. A pretty plant from Madagascar. Treat generously.

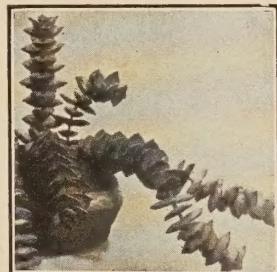
\$1



Crassula hybrid "VELVETA"
Velvety silver-grey leaves rimmed red. The leaves are 2-ranked. A choice small variety. Each.....

40c

CRASSULA CONGESTA
A rare species with thick leaves in pairs. Stems 2 to 3 inches tall tipped with a brush of fragrant white flowers in a compact head. Treat as for Foam Flower. Each..75c

**NECKLACE VINE**

An old favorite. The pairs of leaves are joined so they appear to be like beads strung on a string. *Crassula perforata* likes sun or shade. 2 for.....

35c

**MEXICAN FIRECRACKER**

The charming *Echeveria setosa* likes cool weather and should be planted only in spring or fall. The leaves are covered with plush-like white hairs. Brilliant red and yellow blossoms in spring...

40c

**STONE FACE**

The Lithops are the prettiest and daintiest of the Mimicry plants. They are also the most distinctive of the "window plants" for the pretty, bright patterns on the leaf tips serve as windows to diffuse the strong desert sunlight. Each plant is a pair of joined succulent leaves, with age they split up into 2, 4 or more heads. Each.....

35c

COLLECTION E 2

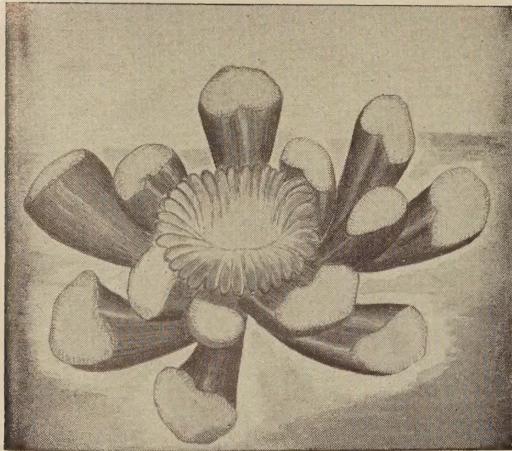
5 different varieties
unlabelled \$1.50

COLLECTION E 3

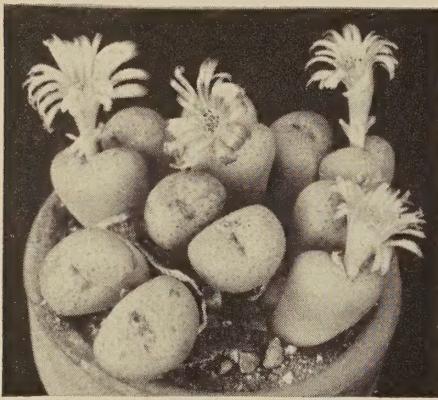
10 different varieties
unlabelled \$2.50

**EUPHORBIA OBESA**

A curious cactus-like South African succulent with globose body. Even more intriguing is the bearing of male and female flowers on different plants. Most happy in a porous, loam soil moderate watering and in sun or light position. A pair is needed for seeds. **NICE PAIRS \$2.25**. Single plants 1" to 1 1/4" 75c

**FRITHIA PULCHRA**

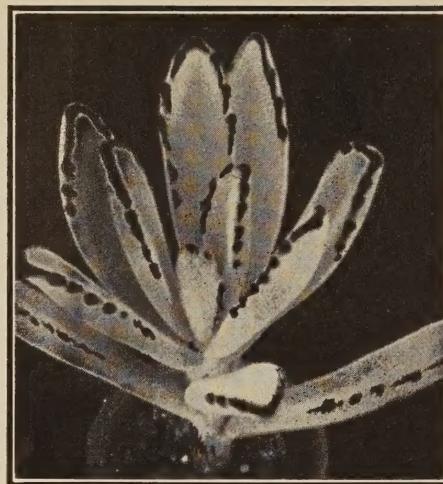
A lovely, easily grown small "window plant" with brilliant wine-red blossoms. It flowers from spring until fall. The leaves are round, short and flat-topped the tips formed by translucent pale green windows. In habit somewhat-like Baby Toes. A very interesting South African succulent that should be in every collection. A light but not too sunny location. Porous soil, moderate watering. Flowering size potted.

75c**CONOPHYTUM "GOLDEN STARS"**

This pretty relative of the Stone Faces forms clusters of many small heads each of which bears a large golden yellow blossom in October. The clusters may reach 3" in diameter and are lovely when in flower. *Conophytum aureum* is of simple culture, begins to grow in September after a dry summer rest. Water only moderately when the soil is dry. Do not keep constantly moist. They like a light, airy position and a sandy porous soil. Small clusters.

50c**PYRAMID CRASSULA**

Crassula pyramidalis is a rare, collector's plant with hard, tightly overlapping leaves forming almost square columns. With age they branch and in early fall produce heads of white, very fragrant, "shaving brush" flowers. They prefer a porous soil with some leafmold and a light, airy position. When soil is dry water moderately. Not difficult. Nice potted, 2" plants.

75c**PANDA PLANT**

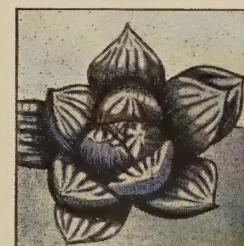
Kalanchoe tomentosa has velvet covered leaves the crenations of the upper part tipped with rich coco-colored markings. An easily grown, most attractive plant. Soon branching from the base it makes a fine pot specimen. Give it plenty of light and air and moderate watering. Each.

35c**WINDOW PLANT**

The truncate leaves of *Haworthia cuspidata* are prettily patterned with lucent windows. An easily grown plant pleasing with its fresh green color. Prefers a sandy soil and partial shade. Each.

40c**DESERT ROSE**

Bears large deep pink blossoms. *Trichodiadema densa* is an African succulent much prized by fanciers. The root system is almost tuberous so it needs a quite sandy compost, a light position and to be watered only when soil is dry. The blossoms are very bright. Each.

75c**JOHNSONS JUNGLE MIX**

An excellent base for succulent potting soils. Instructions in package. See page 18.

**EUPHORBIA MAURITANICA CRISTATA**

More graceful than most Euphorbias this species is also a faster grower. This crested form assumes many odd shapes hardly any of the crests being the same. The fans start out almost round and then assume the crested form. A part of the stems do not crest and these should be removed. They are pale, chartreuse green. Crests averaging 3" across.

\$1.50**ECHEVERIA GILA HYBRIDS**

Lovely pale green rosettes of cupped leaves tinged with red in winter. In sandy more sterile soil the leaves tend to color brighter. With age the plants form clusters. Does well in full sun or part shade. Tall spikes of pink flowers in spring.

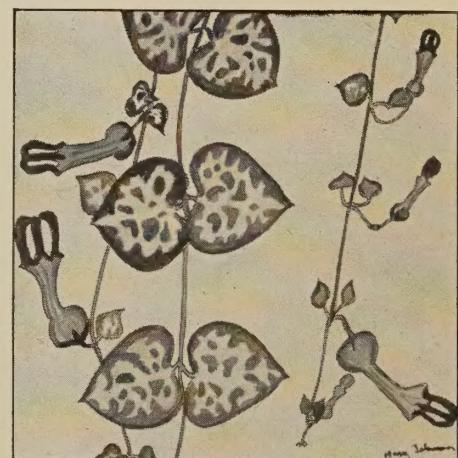
40c**SILVER STARS**

This small Eye Leaf, *Ophthalmophyllum griseum*, is a lovely little plant when in bloom in the early fall. The blossoms are snow-white very freely borne and every plant flowers. The plant, as in other Eye Leaves, is formed of two, tender, joined leaves the tops flattened, brown in color forming clusters of from 5 to 25 heads. Culture as in *Conophytum Golden Stars*. Small clusters.

75c

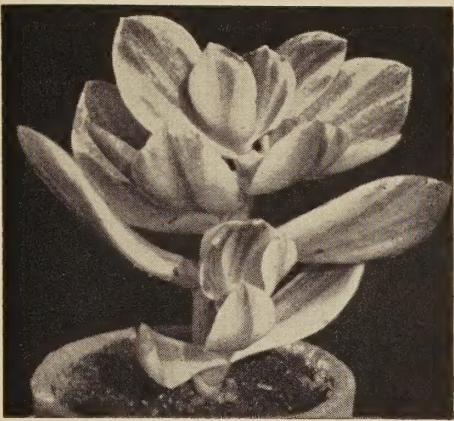
10 ODDS AND ENDS COLLECTION E 4

unlabelled cacti and succulents left over from packing tables or slightly marred plants at less than half price

\$1.50**HEART VINE**

Ceropegia woodii or Rosary Vine has leaves prettily marbled with silver. The stems hang down in long trailing curtains to several feet often producing small tubers on the stems hence the name Rosary Vine. Likes generous treatment and grows well in shade not too dense. Potted tubers **3 for \$1.** Each.

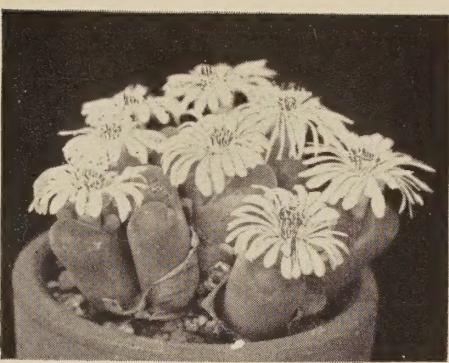
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TRICOLORED JADE

An ever popular succulent, easy to grow and highly colorful with its variegated leaves of green and ivory often tinged pink. Happy in almost any soil mixture—heavy to light, and adaptable to full sun or shade, although brightest in full sun. *Crassula argentea tricolor* makes a handsome pot plant. Each.....

35c

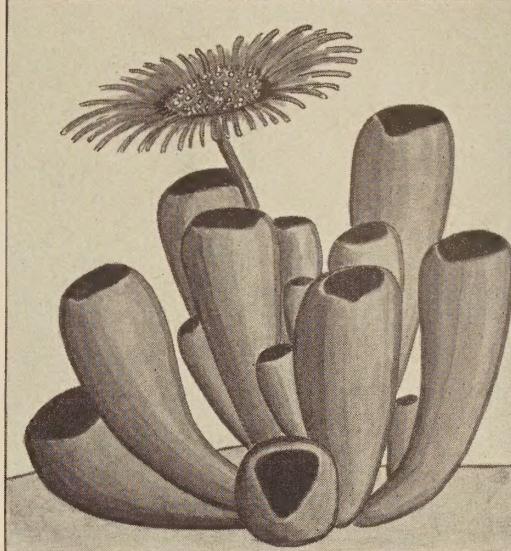


OPHTHALMOPHYLLUM HERREI

This charming Eye Leaf has been in bloom for over 2 months this fall. One becomes very fond of them they are so clean and bright and require so little. Their culture is simple. Their growth begins in September when water should be given, just enough to keep them plump. Too much will split them. After flowering gradually withhold water until spring when they will finish their growth. In summer June, July, August they are dormant, the leaves with a paper-like covering and little water is needed.

Each.....

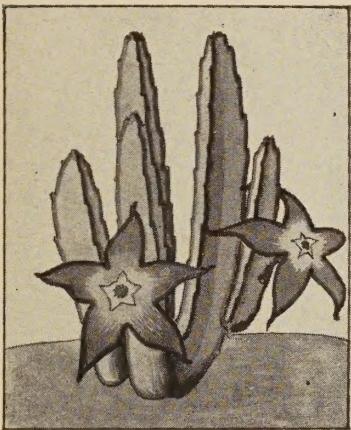
75c



BABY TOES

An odd "window" plant with daisy-like white blossoms in fall. The tip of each leaf of *Fenestraria rhipalophylla* is formed by a translucent window. Simple cultural instructions enclosed with each plant. Real curiosities and a source of unending interest. Full sun. Potted blooming size each.

50c



PINK STARFISH

Stapelia divaricata is a free flowering small species with pretty flesh-pink flowers an inch in diameter. Blooms in summer and fall. Pot in rich but porous soil, treat generously. Each.....

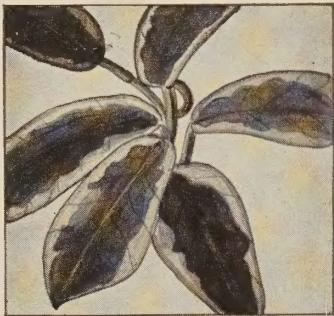
50c



WAX VINE

Hoya carnosa bears lovely, pink, waxy, blossoms in large clusters. These clusters should not be cut as they will produce flowers for years. The vine has bright green, shining, succulent leaves. A compost of leafmold, peatmoss and sand is best for them. Keep moist at all times. Partial shade. Each.....

75c



TRICOLOR WAX VINE

A handsomely variegated form of *Hoya carnosa*. The leaves brightly margined with yellow, tinged with pink a highly decorative combination. Popular dish garden plants they grow well in shaded situations. The flowers of this form are much deeper pink than the species. Requires the same treatment. Each.....

80c



CRASSULA DECEPTRIX

A very rare and handsome succulent white as though carved from alabaster. A collector's item of slow growth. This South African plant thrives in very sandy soil with leafmold or peat in a bright, airy situation. Nice specimens 1" each.

50c

HESPERALOE

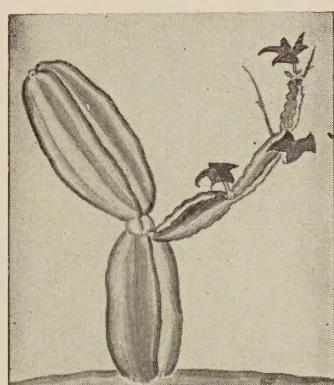
Hesperaloe parviflora is an almost hardy plant as it comes from S. W. Texas where temperatures can get down almost to zero. It has yucca-like long narrow, leathery leaves and 5 foot panicles of large red flowers. Clumps produce several of these brilliant spikes which are in continuous flower from spring till late fall. A very effective, long-lived border or tub plant. Our customers who see it always want it. Three year old plants. \$1



ZEBRA HAWORTHIA

The ever popular *Haworthia fasciata* is a charming plant with pearly white, raised lines banding the pointed, dark green leaves. All the Haworthias like some shade and moderate watering. A sandy soil with peatmoss and leafmold is best. They have rather thick, fleshy roots. Each.....

40c



VELD GRAPE

Cissus quadrangularis is a curious plant, related to our grape, with fat, succulent stems. The young stems bear tiny grape-like leaves and tendrils. Easily grown in a rich loam soil watering when dry. Each.....

50c



COCKSCOMB

One of the prettiest succulent crests with broad fan-shaped stems waved and much crested bearing small blue-white leaves along their crests. *Pachyveria clavifolia cristata* makes a fine pot plant. Sandy soil with leafmold and peatmoss. Sun or shade. Each.....

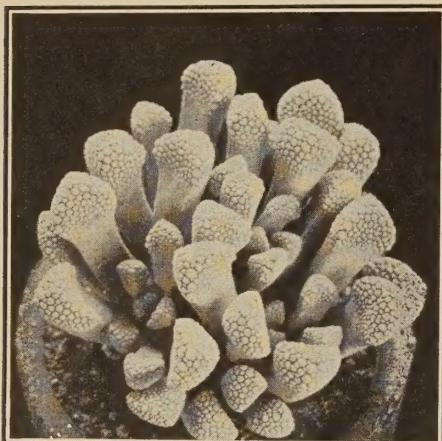
40c



COCKLEBURS

Huernia pillansii has its stems clothed with soft bristles. Rust-red Dragon Flowers appear at the base of the plant in late summer. This unique plant likes a porous loam soil with peat-moss to keep it open. Water liberally during summer. Each.....

50c

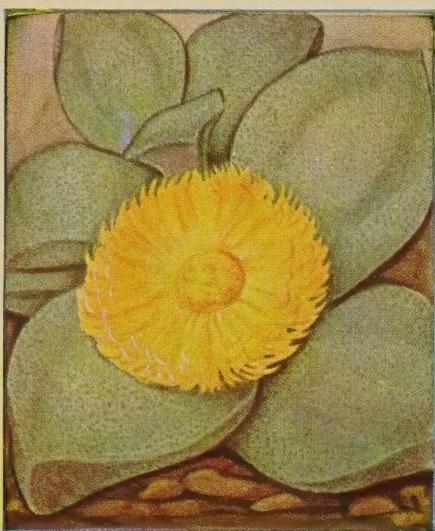


WHITE JEWEL PLANT

An interesting mimicry plant, Titanopsis schwantesii. The tips of the white leaves are pebbled. Flowering size.....

45c

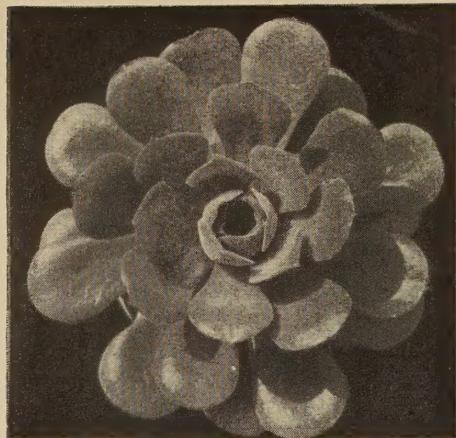
Titanopsis setifera. Dark green leaves..... 50c
Titanopsis luckhoffii 75c
Titanopsis primosii 75c



AFRICAN LIVING ROCK

A fine, easily grown Living Rock, Pleiospilos simulans; its grey-green leaves like shards of granite. Blossoms freely in fall. Thrives in sandy soil if watered only when dry. Full sun. Small 40c. Larger.....

50c



AEONIUM CANARIENSE

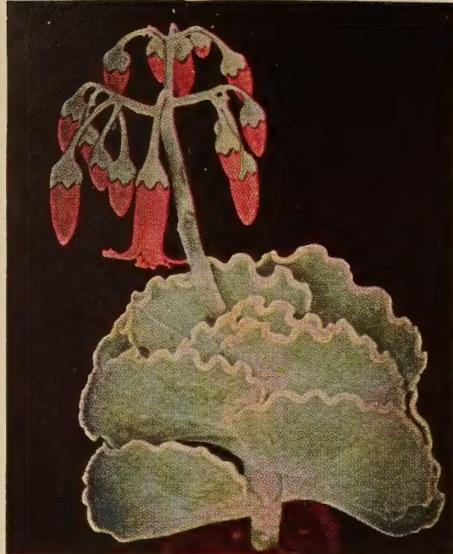
Beautiful, soft green rosettes the leaves hairy. A lovely plant doing best in a cool, moist atmosphere. Tall pyramidal spikes bearing hundreds of yellow blossoms. Quick growing. 40c of easiest culture. Sun or shade.....

CACTUS AND SUCCULENT

SOCIETY

CONVENTION 1957

Join the Cactus and Succulent Society of America receive the Journal and attend the 7th biennial Convention at Berkeley, Calif. in early July. Make hotel and other reservations well in advance through the convention secretary. A 5 day program designed for the beginner as well as the advanced collector and scientific worker. Excursions to Botanic Gardens, etc., colored slide programs, lectures, seminars. Attendance from all over U.S. and Canada. A friendly get-together to discuss and learn more about our hobby. Membership \$4.



SILVER CROWN

Lovely pink bells in summer and fan shaped leaves with crinkled margins describe Cotyledon undulata. The leaves are covered with white powder. Pot in sandy or porous loam, watering moderately. Light, airy position.....

40c



WART PLANT

An all time favorite, Haworthia attenuata is deservedly popular because of its attractiveness and easy culture. The warts on the leaves are much whiter than shown. Beautiful rosettes, eventually forming clusters. Sandy loam with peat or leafmold which their roots can easily penetrate, partial shade, and moderate water.....

50c

STARFISH FLOWERS

There are a great many kinds of Stapelias with flowers from $\frac{1}{2}$ inch to well over 12 inches. The plants are small and very suitable for pots. Their growing period is during the warm summer months. They flower on the young growth. A little liquid fertilizer in summer helps the flowering.

Stapelia cantabrigiensis. Large reddish flowers..... 75c

Stapelia comparabilis. A large flowered variety with reddish-tan blossoms..... 75c

Stapelia cooperi. Heavily spotted flowers..... 60c

Stapelia dummeri. A very odd species with chocolate blotted stems. Flowers borne at stems tips, chartreuse, covered with papillae..... 75c

Stapelia flavirostris. Large blossoms striped red and yellow the petals heavily fringed..... 75c

Stapelia maculosa. A heavily spotted variety; flower of medium size..... 75c

Stapelia nobilis. A huge flowered species with purplish blossoms fringed with purple hairs..... 75c

Stapelia schinzii. The almost black blossoms have the petals drawn out into long tailed tips, fringed with purple hairs..... 75c

Stapelia senilis. A handsome flower to 5 inches across covered with white hairs. A rare plant. \$1.00



MEXICAN GEM

Handsome Echeveria elegans has spoon shaped leaves of powdery white. Beginning as a single head, it quickly forms clusters, each head crowned in spring with dusky rose blossoms. Easy to grow, it is brightest when given plenty of light and ventilation. Each.....

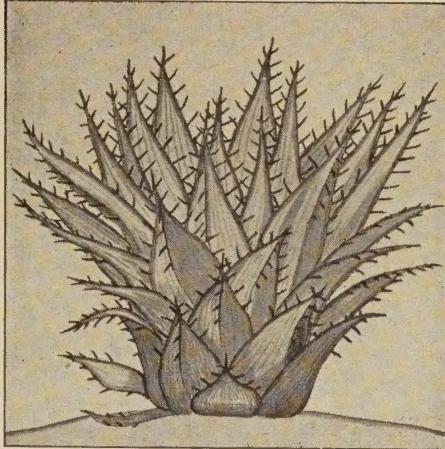
40c



GREEN JADE

Echeveria agavoidea makes a fine specimen. The thick leaves are pale green, stiff as though carved from jade. The flower spikes in late spring have orange bells. Grows to 4" across. Each.....

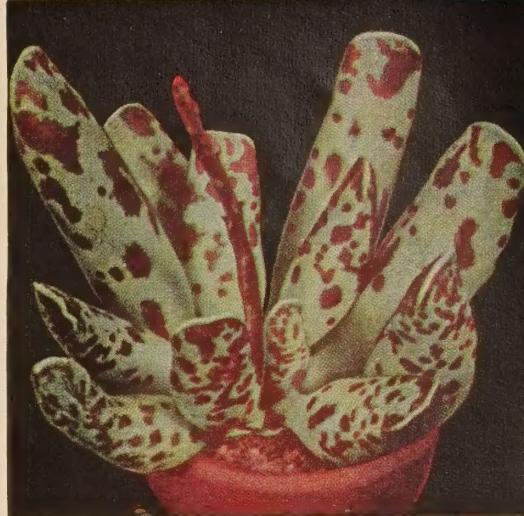
40c



LACE HAWORTHIA

Light green rosettes with each leaf edged with bristly white teeth giving it a lacy effect, and lined on the inside with longitudinal semi-transparent windows. Equal parts washed sand and peat or leafmold, moderate watering, partial shade. Keep dry during July and August. *Haworthia setata*.....

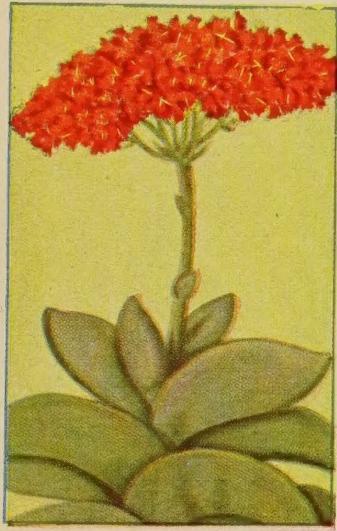
40c



PLOVER EGGS

A fascinating succulent with thick, cylindric leaves silvery green, marbled maroon. *Adromischus festivus* likes a porous soil with leafmold or peatmoss and sand. Give it an airy, sunny or part sunny location to bring out the colors. Each.....

50c



SCARLET PAINT BRUSH

Rocaea falcata is a unique plant with large trusses, 6 inches across, of brilliant red flowers in September lasting a month. Give it generous treatment and a sunny situation. Always attractive with its grey white 2-ranked leaves.....

40c



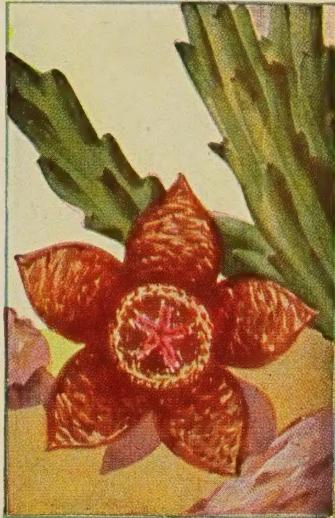
COBWEB PLANT

Kleinia tomentosa is a choice collector's item. The stems and leaves are pure white entirely clothed in a snowy, downy felt. Grows freely branching at the base. Sandy loam, sunny location. Moderate watering.....

50c

GIANT COBWEB PLANT
Twice the size of the above species.....

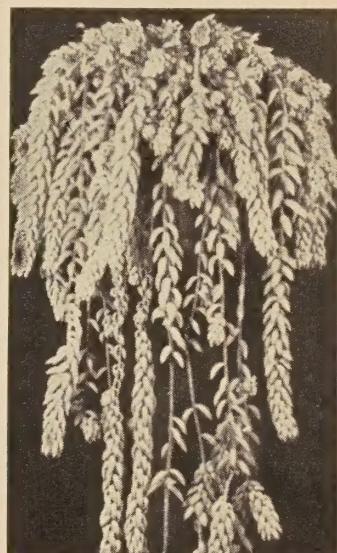
75c



STARFISH FLOWER

The commonest of the *Stapelia*. *Stapelia variegata* is one of the easiest to grow and flowers throughout the hot summer. Flowers mottled with brown. A rich porous soil watering moderately to generously during dry weather. Winter on dry side. Each.....

40c



BURRO TAIL

Sedum morganianum makes a handsome trailing plant the stems with age reaching 3 feet in length. To make a full basket use 3 plants which will branch and fill in evenly. A rich porous soil and a bright airy situation. Generous watering. **3 for \$1. Each**.....

40c

PACHYPHYTUM

Mexican succulents of upright habit and very thick, colored leaves. They like a sunny situation with moderate watering. Sandy, porous soil.

Pachyphytum Blue Haze. A lovely hybrid with white leaves flushed with pink.....

40c

P. brevifolium. Handsome blue green flushed rose.....

40c

P. compactum. Thick blue leaves. Pink flowers.....

40c

P. leslei. Hybrid with yellow green leaves.....

40c

PUYA

South American yucca-like plants with tall spikes of steel blue or chartreuse bells. Graceful vase-like rosettes. Sunny location. For borders or tubs. Stand 22".

Puya alpestris. Steel blue blossoms. Spikes to 5 feet.....

75c

Puya raimondii. One of the most spectacular and rare of all succulents.

Forms a trunk, flower spikes to 30 feet! Each, small.....

\$1.50

Puya spathacea. Pink flower spikes. Bells green tipped blue.....

75c

DRAGON'S BLOOD TREE

Dracaena draco has a thick trunk and fountain of leathery, strap-like leaves. Fine specimens for tubs. From 3" pots.....

\$1.00

BOTTLE TREE

Beaucarnea, more correctly *Nothocalyx revoluta* is an old Mexican, yucca-like plant with a large bulbous base. Very graceful plant with its fountain of narrow, arching leaves.....

75c

JOHNSON'S CACTUS SOIL CONDITIONER

Designed to add the minerals ordinary garden soils often lack. Often brings an ailing plant back to health.

10 ounces.....

60c

24 ounces.....

\$1.00



STAR CACTUS

Golden spines, body spotted white. Bright yellow blossoms. Choice.....

40c



STONE FACE

Closely resembling stones. *Lithops* are beautifully marked. Rare. Small.....

35c



OX TONGUE

Spotted leaves like huge tongues. Tall spikes of pink blossoms.....

35c



AIR PLANT

Young plantlets borne at the leaf tips! Hand-some orange blossoms.....

35c



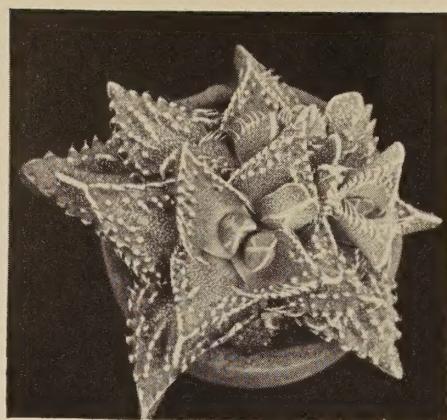
DUMPLING CACTUS

Blossoms when young. Dumpling is fine for bowls. Each.....

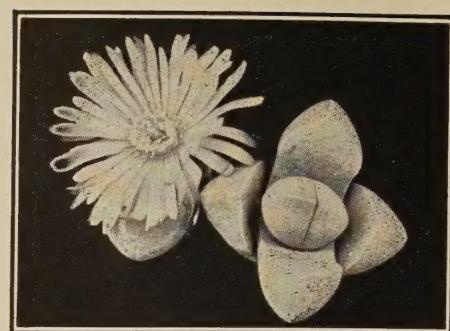
35c

**EUPHORBIA BUPLEURIFOLIA**

This very scarce succulent from South Africa bears normal green leaves at the tip of its pinecone-like stem. A collectors rarity. Plants grow readily in an open soil, watering moderately. A partially sunny or very light situation. Each.

\$2.00**KNOBBY TIGER JAWS**

This is a new, selected form with prominent knobs and large yellow flowers in October and November. Forms nice clusters. Easy to flower in a sunny location. *Faucaria tuberculosa superba* likes a quite open sandy soil. Flowering size each.

50c**KAROO ROSE**

A pretty *Mesembryanthemum* with lovely white leaves flushed with pink. It may eventually reach 2" in diameter but generally is smaller. The flowers produced in September or October are a brilliant golden yellow. Plant is pretty at all times. Sunny situation sandy soil very moderate watering. *Lapidaria margaretae*. Each $\frac{3}{4}$ " to 1".

35c

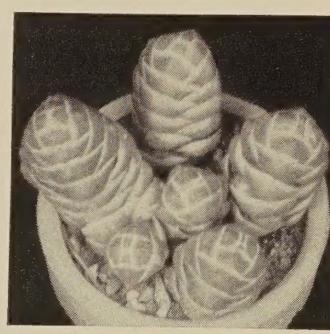
DINTERANTHUS MICROSPERMUS. A pretty blue-white *Mesembryanthemum*, needing same treatment as *Lapidaria*, above. 2-pairs of fat leaves. Fine. Each

35c**PUSSY EARS**

A creeper with hairy green leaves and brilliant small orange and purple flowers. *Cyanotus somaliensis* is easily grown. Potted.

40c**CHAIN PLANT**

Growing easily in partial shade. *Tradescantia navicularis* has fine pink blossoms. Each

35c**RATTLESNAKE CRASSULA**

Crassula teres forms small clusters bearing "shaving-brush" heads of very fragrant white flowers. Always attracts attention. Well lighted or sunny windows, sandy soil. Each

35c**COBWEB SEMPERVIVUM**

The *Sempervivums* are winter-hardy in U.S. Neat cluster of small 1" to 1 1/2" rosettes covered with a delicate cobweb of white. Tall spikes of large pink flowers.

40c**ALOE**

Aloe sladeniana. A collectors item from S.W. Africa. Handsomely mottled green and white, thick leaves. Very pretty. Each

1.00

Aloe dinteri. Rare collectors item S.W. Africa. Blackish green, thick leaves spotted white. Thick roots. Porous soil. Each

\$1.00

Aloe marlothii. A fine, blue leaved tree species with large, candelabra-like yellow flower heads. Fine for tubs. Each 3"

\$1.00**RAINBOW BUSH**

Rainbow hued in yellow, cream, pink and green each dainty leaf hugging the fat, mahogany red, jointed stem. *Portulacaria afra* var. tricolor is a charming plant that will stand out among the plainer greens. Light loam soil, generous treatment, don't keep too dry. Sun or shade. Potted.

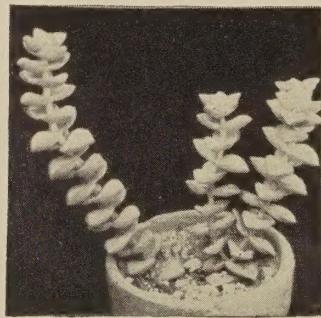
40c**HAWORTHIA**

Listed are a few scarce varieties for collectors. Nice plants correctly named.

<i>Haworthia angustifolia</i> var. <i>subfalcata</i>	50c
<i>H. batesiana</i>	50c
<i>H. cymbiformis</i>	50c
<i>H. emilyae</i>	75c
<i>H. haageana</i>	50c
<i>H. huringii</i>	50c
<i>H. jansseniana</i>	50c
<i>H. limifolia</i> . A beauty often called the "Washboard". Rare	\$1.00
<i>H. magnifica</i> . Large, windowed species.	\$1.00
<i>H. maraisii</i> . Handsome windowed.	75c
<i>H. nitidula</i>	50c
<i>H. pilifera</i> . Beautiful, large windows.	75c
<i>H. reticulata</i> var. <i>acuminata</i>	50c
<i>H. subfalcata</i>	50c
<i>H. turgida</i> var. <i>turgida</i>	50c
<i>H. umbрacticola</i>	50c

**CORAL BEADS**

Each head a jewel of bright red. Brightest when grown in poor soil or sand and in full sun. *Sedum stahlii* grows too fast in rich soil. The leaves are easily detached and if put on dry soil will eventually form a new plant. 2 for

35c**BEAD VINE**

Crassula rupestris has large heads of bright pink flowers. In growth it is somewhat like the Necklace Vine. A pretty graceful vine-like plant for a pot. Likes a sunny or partly shady location and a moderate amount of water. Should be better known. Each

35c**PINK CHAIN**

Sedum sieboldii has large terminal cluster of bright pink blossoms and round, blue leaves. Plant deciduous, winter hardy in U.S. Does best in rock garden or hanging basket. Each

40c



UMBRELLA FLOWER

A companion species to Heart Vine. *Ceropegia barkleyi* has narrow leaves. Each leaf is marked with silver tracing. Equally attractive are its light colored flowers about $\frac{3}{4}$ " long with just the tips of the petals joined to form an umbrella. Happiest in sandy loam with moderate watering and partial shade. Potted.....

40c

COCONUT PALMS

Houghton's *Bryophyllum* makes an attractive plant for a miniature garden for it assumes the graceful pose of the wind-swept coconut palms of tropical beaches. A sunny situation and a sandy soil with moderate watering suits it best.

2 plants.....

35c

Bryophyllum scandens. A succulent, twining vine with thick purplish leaves suitable for a window. Produces young plants on leaves. Each **40c**. **B. tubiflorum** Xmas Bells. Spotted, succulent leaves the tips producing tiny plantlets. Tall spikes large red bells. Each.....

35c

INCH WORM

As each stem grows it turns upwards and then bends down to the ground where it catches root and then starts off again for all the world like an Inch Worm. *Kleinia pendula* prefers a sandy soil, moderate watering, and sun. Scarlet flowers. Each.....

40c

GIANT STAR FLOWER

One of the largest flowers in nature! Often 16 inches across yet on a very small plant. You can grow and flower *Stapelia gigantea* in a 4-inch pot. This African succulent thrives in a sunny window. Sandy soil, moderate watering. Each.....

50c

ECHEVERIA ALBA

A very distinctive variety with compact rosettes up to 3" across. Leaves bright blue-white. A fine pot plant or for the summer border. Tall white spikes with pink blossoms like small bells.....

40c

PACHYVERIA STARLIGHT

A pleasing new plant forming rosettes 2" across with thick spoon-shaped, chalk-white leaves. Grows well in light situations or in full sunlight. Each.....

35c

P. White Nun. Grows taller. Leaves gray-white.....

35c

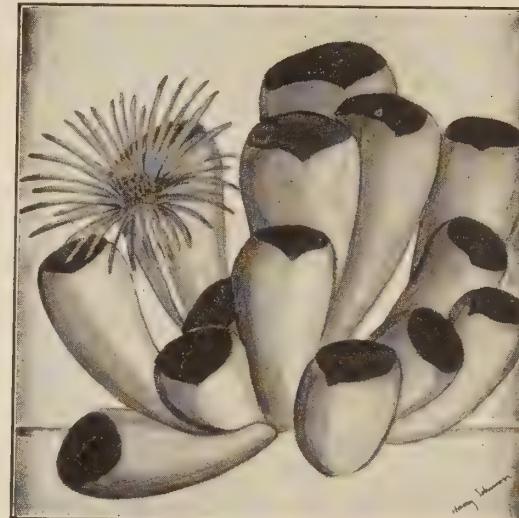
DUDLEYA BRITTONII

A handsome specimen from the seaside cliffs of Lower California. The snowy rosettes may easily reach 15" across. Each leaf is thickly powdered with a silvery bloom that rubs off like talcum. They grow wild, high on the basaltic mesa cliffs facing the sea. They like lots of peat moss and sand in the compost and moderate watering. Quick growing. Each.....

50c

CONOPHYTUM MEYERAE

This *Conophytum* belongs to the tall growing, bilobed group whose leaves are split at the top into two lobes. Flowers yellow in October. They should not be planted deeply. Use a sandy soil; sand and leafmold is good. Keep dry during summer. Each.....

75c

ORANGE BABY TOES

The curious *Fenestraria aurantiaca* comes from the west coast of Africa. In the wilds only the tips of the leaves peep above the surface, the clear window in the tips allowing the light to penetrate. Simple growing instructions with each plant. Potted specimens each....

50c

ECHEVERIA

Echeveria Doris Taylor. Handsome.....	50c
E. expatriata	35c
E. kewensis	35c
E. microcalyx	35c
E. pallida. Large 12" rosettes. Small.....	50c
E. plumosa. Handsome.....	40c
E. pubescens. Tall.....	40c
E. pulvicox	40c
E. recurvata	40c
E. scaphophylla	50c
E. setoliver	40c
E. spruceana	40c
E. weingartii	40c

FLOWERING STONES

Dinteranthus integrifolius closely resembles the white pebbles among which it grows. Golden flowers. Fine.....

35c

GIBBAEUM

Curious mimicry plants with rosy lilac flowers and very unequal leaves. Form clusters of fat leaves. Each.....

40c

PLEIOSPILOS HILMARI

Fat copper-red leaves like jasper pebbles. Large golden blossoms borne from August to September. Nice colored plants.....

35c

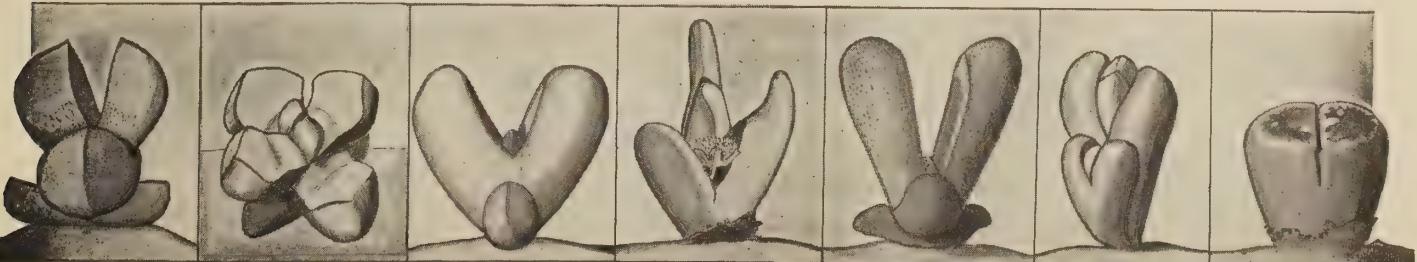
PEBBLE PLANT

The *Rimarias* are like smooth green chert pebbles. Cluster forming flowers white.....

35c

STONE FACE

Lithops are the jewels among the succulents. Lovely patterned windows on top of brown, gray, rust red, white or green. Just like colored pebbles. Nice plants. **35c**



ORCHID CACTI



HERMOSISSIMUS

This lovely Orchid Cactus is still one of the brightest and best of all. It is a vivid example of the bicolor type with deep crimson outer petals the inner petals and throat a glowing electric violet each petal with a median stripe of orange. The branches are rather slender, the flower buds long, slim and pointed. A free bloomer of vigorous growth generally flowering in April. It should have a light open soil. Each.....

\$1.25

CARE OF NEWLY POTTED ORCHID CACTI

When you receive the plants the roots will be in a plastic bag which keeps them moist yet gives them air. When your potting soil is ready it should be barely moist so you can sift it among the roots. Use about a 3" or 4" pot for the first potting. Small pots are best at first as they allow for more air which encourages new root growth. Pot only moderately firmly, seeing that the compost is on the coarse side, not too fine. Water well, then place the plants in a well lighted window with ventilation. They like fresh air. A temperature of 60° is excellent, 10° lower or higher is acceptable. Keep barely moist, not wet. In a month new roots should be established. Later they should be put in 5" or 6" pots to finish their summer growth. If you have a sun porch or greenhouse place the pots in a light position but protect at first from the mid-day sun to prevent scalding. Cacti do not wilt like ordinary plants but draw upon stored water reserves until roots are started.

List according to general color

RED TO RED VIOLET

Amber Queen. A large flower up to 10", brilliant orange red. Inner petals undulate margined shading to yellow at base giving the flower an amber glow. Good grower....85c

Camillo Schneider. Large red flower petals bordered with lavender, lavender throat....85c

Champion. Large wide opening blossom of deep red. Petals broad, edged with violet with light red center stripe.....85c

Dante. Large 9" orange red blossom, inner petals suffused with delicate violet tones....85c

Fiesta. Handsome rich red blossom outer petals scarlet with orange center stripe, inner petals bordered with violet.....85c

Gamut. Radiating dark red outer petals. Inner petals red violet edged with lavender at base. Fragrant.....85c

Glorioli. Red with violet overtones. Flower cup shaped, fragrant.....85c

Loebneri. Inner petals red with lavender overlay, outer red violet.....85c

Oberst Kunrich. Inner petals deep violet, outer maroon to copper....85c

Peacockii. Huge, bright carmine red with luminescent violet blue throat.....\$1

Scarlet Giant. Very large orange scarlet. Throat violet red.....85c

Viviana. Red purple blossoms opening widely. Good basket type. 85c



HANS REHM

Glistening, large 8" blossoms of claret-red. Outer petals red inner petals orange-red edged with purple. A very lovely flower. Vigorous grower. Each.....

\$1



A HONG KONG COLLECTION

Mr. Costa has a very fine collection of cacti and is an expert grower. We have many patrons throughout Asia.

At left:

CALLENDER'S PFAU

A handsome cup-shaped flower. Light lavender with cerise overtones, petals full. Outer petals tan. Vigorous grower. Very lovely.....

\$1.25



POLDI SVETNIC

Star-like white blossoms opening out flat. Numerous slender petals. Charming free flowering plant. Good basket variety.

\$1

ORANGE AND AMBER

Bliss. Pastel orange with rounded inner petals. Outer series long, slender, well spiraled. Strong grower. Each.....85c

Brown Bear. Lovely cup-shaped blossom bronzy orange in color. A vigorous fast growing plant. Each.....\$1

Dr. von Roeder. Large waxy flowers of orange buff. Inner petals rounded outer series erect deep bronze. 85c

Flamingo. Large graceful blossoms of brilliant amber orange with pink overlay shading to violet in center. Each.....85c

Mon Cherie. Beautiful flower marked like a parrot tulip the petals feathered with red penciling on yellow ground. \$1.25

Mons. Jolibois. Red petals shading to orange at center. Inner petals margined with violet. Charming. Each.....85c

Stern von Erlau. Bronzy orange within, outer petals red. Flower has a high luster. Beautiful. Each.....85c

Sunburst. Large flowers burnt orange within. Vivid violet throat. Compact grower fine for basket culture. Each.....\$1

Sun Goddess. Huge 10" flowers of brilliant burnt orange with golden sheen. Petals large and graceful. Handsome....\$1

JUBILEE ASSORTMENT

COLLECTION E 9

7 named Orchid Cacti in a fine range of color and varieties. White, red, crimson, pink, lavender. All are standard vigorous growers. A rainbow in your window. Pot first in 3" or 4" pots until well established then shift to 5" or larger. The set.....\$5



PROFESSOR EBERT

A very lovely free blooming variety with flowers of bright violet carmine. A good sturdy plant with triangular, bright green stems, quite sure to flower. Attractive upright growth bearing its flowers boldly. Each.....95c



GLORIA

A magnificent Orchid Cactus with gorgeous flame colored flowers up to 9 inches across. Its season of bloom is one of the longest, flowers sometimes appearing as late as August. Very easy to succeed with. An outstanding variety and much recommended. Each.....

85c

WHITE

Easter Morn. Fragrant white flowers. Inner petals white, outer petals flaring yellow and gold. Plant strong, free blooming.....90c

Eden. Fragrant flowers of snowy white. A graceful, loose flower of large size. Outer petals rich yellow. Excellent bloomer.....85c

Londonii. Quite on the yellow side. Inner petals creamy white, outer yellow deepening to gold. Each.....90c

Moonrise. Lovely fragrant large white blossoms with saffron yellow outer petals. Vigorous, free flowering. Excellent!.....85c

Mount Hood. Large pure white, fragrant flower with yellow outer perianth.....85c

Oriole. Charming white and gold blossom of large size. Plant vigorous, free flowering. Good basket type. 85c

Stadrat Richter. Charming white variety of very distinct growth. A vigorous strong growing plant.....85c



CHRISTMAS CACTUS

Grandmother's favorite. Beautiful Fuchsia-like showers of dainty pink blossoms. Zygocactus truncatus blooms from Christmas on. The flowering time is variable. Use a porous soil with leafmold and sand. Our Jungle Mix is excellent if you are inclined to overwater. Keep damp in a bright window shaded from the noonday sun. Larger 6-7" plants \$1. Smaller potted plant 50c and.....

75c



RATTAIL CACTUS

Aporocactus flagelliformis is an old favorite. The slender tail-like stems hang gracefully and in the spring are smothered in showers of lovely crimson pink blossoms. Easily grafted on tall Selenicereus or Opuntias for weeping standards. Likes a porous, spongy soil. In summer it likes to be outdoors in the sun. Water freely. Larger \$1.25. Nice.....

75c

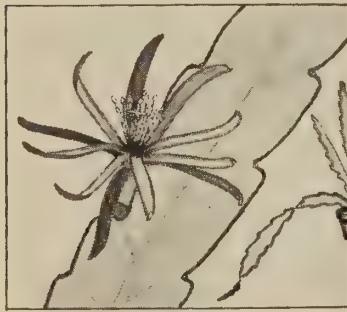


APOROPHYLLUM "HALITO"

For those that enjoy the unusual this is a very lovely plant. The color is a brilliant scarlet the flowers of unique form. The plant may be trained upright or the round, ribbed stems allowed to trail. It blossoms from March to December having as long a blossoming period as any cactus I know. Culture as Epiphyllum. \$1

Red Violet continued

Red Queen. Bright orange red blossoms with faint lavender overlay. 85c
Sacuntala. Handsomely striped flowers of unusual color. Terra cotta colored petals edged with carmine with violet center stripe. A vigorous healthy plant. 85c

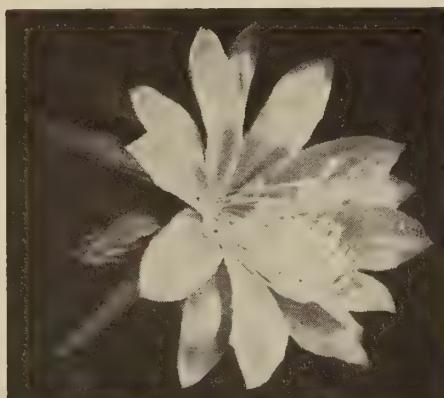


PSEUDORHIPSALIS MACRANTHA

This charming Mexican cactus has arching, flat stems which bear at the areoles. 1 1/2 inch wide, very fragrant flowers. The outer petals are rich golden yellow the inner petals cream white. It is an epiphyte and as such likes a little shade and moisture. Each. \$1

Diamond Jubilee Cactus Handbook

Copies of this 48 page booklet in color are still available. Many cultural hints. 60c



HERMOSSUS

A large broad-petaled flower of brilliant red. The inner petals and throat iridescent violet. Quite vigorous in growth and free flowering. Each. 90c

Valencia. Heavy blooming plant flowering late in season. Inner petals orange yellow darkening to red with violet tones in the throat. Outer petals deep orange red. 90c

PINK AND LAVENDER

Adonis. Large pink blossom with violet sheen and rosy lilac center. Good grower. 85c

Agatha. Soft, warm pink with cherry red center. Flowers have a satiny sheen and open widely. Free bloomer, strong grower. 85c

Argus. Handsome cup-shaped flower of salmon-pink with red center. Late flowering. 85c

Bohemienne. Beautiful 3-colored blossom. Outer petals deep salmon inner petals wide, pale pink and lilac. 85c

Cynthia. Delicate clear pink. Inner perianth full, cup-shaped with white throat. Outer series reflexed. Fine for baskets. 90c

Empress. A lovely soft pink flower which lasts much longer than any other. While small, the blossoms are borne in great abundance. 90c

Jorge Siepke. Orchid pink blossoms the color running in stripes toward the center. 85c

Joseph De Laet. Very choice. Outer petals spreading, scarlet red. Inner series violet to pale lilac with darker center stripe. 1.25

Latona. Handsome, large, loosely petalled flower of lovely orchid pink. Inner petals suffused with lilac outer petals rosy pink. 85c

Lohengrin. Deep orchid pink with rose eye. Flowers very large with wide petals. 85c

Madam Sallier. Light flesh pink blossoms the inner petals with darker pink stripe. 85c

Pink Nymph. Lovely saucer-shaped blossoms of salmon pink. Petals are ruffled. Free flowering vigorous grower. Excellent basket variety. 85c

Ramona. Outer petals rose pink inner petals salmon pink shading to pale pink. 85c



EARLY FLOWERING XMAS CACTUS

Bright salmon-red flowers much handsomer than the old Xmas Cactus. *Zygocactus bicolor* flowers early in October or November and is exceedingly floriferous. Even small plants persist in blooming. The stems or "leaves" are shorter and broader than Xmas Cactus, with long teeth which gave the common name Crabs Claw. Plant vigorous thriving in our Jungle Mix or a very spongy soil. Small potted plants \$1 each.

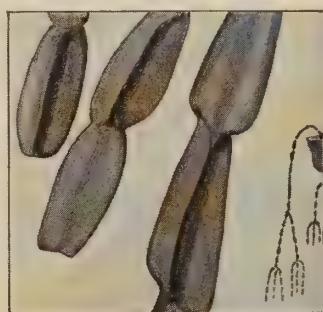
EASTER CACTUS

Schlumbergera gaetneri flowers at Easter-time. The blossoms are 1 1/2"-2" in diameter, brilliant red in color. When well grown they can be unbelievably prolific in blooming carrying hundreds of blossoms an ethereal spectacle. The plants look and requirements are similar to the old Xmas Cactus. \$1

75c

SPRING BEAUTY

Rhipsalidopsis rosea is another uncommon Brazilian cactus similar in growth to Xmas Cactus. The lovely soft pink blossoms are about an inch in diameter produced on the ends of the branches. This exquisite plant likes a cool moist atmosphere and porous, open compost. 75c



LINK CACTUS

An odd cactus for hanging pots or baskets. *Rhipsalis paradoxa* likes the same care as Orchid Cacti. The long pendent stems bear small cream flowers. Native of Brazil. Each. 75c



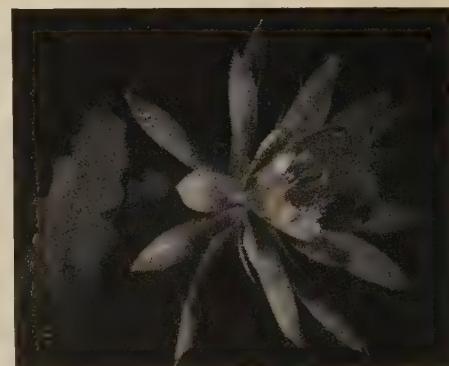
RHIPSALIS CRISPATA

This *Rhipsalis* is an upright grower, very pretty when covered with its pale yellow blossoms. New growth is copper colored, older stems are apple-green. A vigorous easy to grow plant. 50c



DISOCACTUS EICHLAMII

An exquisite, small epiphytic cactus from Guatemala. The jewel-like, bright crimson blossoms are very freely borne in the spring. The plant looks like a small Epiphyllum bearing its blossoms at every crevation. Likes a moist, warm atmosphere and very porous compost. 75c



CHIAPASIA HYBRIDS

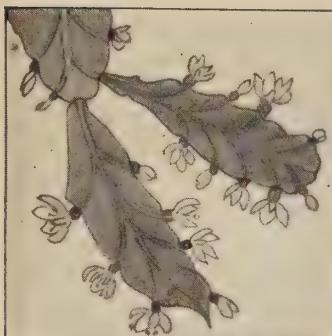
Charming small growing plants that flower over a long period. They retain somewhat the form and growth of lovely Chiapasia.

Marionette. A lovely lilac pink darkening toward the edges of the petals. Throat lime green. Bell-shaped with long tube. Each. \$1

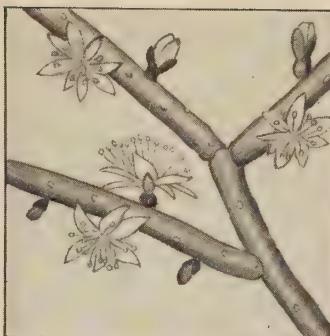
Nayada. Wide bell-shaped blossoms of delicate lavender. Petals have a deep lilac border with lighter feathering. This very pretty variety blooms over a very long season. I have had it still flowering in September and as early as December. \$1

PADRE

Lovely warm pink blossoms. Flowers over a long period. A reliable bloomer and a good one to start with. Plant vigorous and strong rooted. Besides the regular flowering period it may bloom at odd times through the year. Each. 85c

**RHIPSALIS RHOMBEA**

A coppery-green plant from Brazil. It grows quickly and with its colored stems and creamy flowers is quite distinctive and attractive. Up-right but as the branches lengthen becomes pendant. A nice basket or ledge plant. Shield from midday sun.....

40c**RHIPSALIS GRANDIFLORA**

A round stemmed, vigorous plant from Brazil. At first the plant is upright but becomes pendulous. The stems are dark green to reddish and branch mostly at the tips generally into three branchlets. Flowers large, cream colored. Each.....

50c**CHIAPASIA NELSONII**

The bright violet pink blossoms are about 2 1/2" long borne abundantly in the spring. This pretty epiphytic Mexican cactus has long terete stems from which spring the thin flattened side branches. Prefers a cool partially shady situation rather than a hot dry one. Each.....

85c**SNOWDROP CACTUS**

A great favorite, Rhipsalis houlletiana has gracefully arching branches set with pretty white bells in spring. Likes a shady but light position, porous soil and generous waterings in summer. Culture as Orchid Cacti.....

50c**APOROPHYLLUM**

A very lovely group of Orchid Cacti hybrids which prolong the flowering season. They have round instead of flat stems and may be trained upright or planted in baskets. See illustration on opposite page. Culture as for Orchid Cacti.

HALITO. See page 14.

LAWRENCE. Soft salmon pink blossoms. Hybrid between Aporocactus flagriformis and Valencia.....

\$1

ODALISQUE. A hybrid between the beautiful rosy red Rosetta and Aporocactus flagriformis.....

\$1**SUN CEREUS HYBRIDS**

These brilliant hybrids, Aporoheliocereus, are the result of using the gorgeous Helicereus speciosus the basic parent of all red and violet Orchid Cacti and Aporocactus flagriformis the Golden Pink Rattail Cactus. The flowers are large and very bright red and violet. Culture same as Orchid Cacti.

HAZEL HYBRIDS. Vigorous growing with round, ribbed stems and brilliant large blossoms with short tubes and spreading petals. Each.....

\$1.25**CHIAPHYLLOPORA**

These interesting tri-generic hybrids are derived from Chiapasia, Epiphyllum and Aporocactus. There are many interesting and beautiful flowers among them. Stems round, ribbed with harmless bristles. Same culture as for Orchid Cacti. Each.....

\$1**WERCKLAPORA**

Hybrids between the lovely Werckleocereus glaber a free flowering Night Blooming Cereus and the well known old favorite, Rattail Cactus. The plants have round, ribbed stems bearing short, harmless bristles and make fine basket plants or may be trained upright. Culture as for Orchid Cacti. Each.....

\$1**EPHYLLANTHUS OBOVATUS**

Handsome Xmas Cactus-like deep pink flowers. Culture as for Xmas Cactus. Each.....

\$1**VALENCIA**

Orange yellow Orchid Cactus darkening to red with violet throat. Outer petals deep orange red. Vigorous, heavy flowering, late season variety.....

90c**CHRISTMAS CACTI****ZYGOCACTUS**

Christmas Cacti or Crabs Claw are well known old favorites but few people realize their several color variations and types of stems. All require the same care similar to Orchid Cacti. Light porous soil. Jungle Mix is recommended.

JOHNSON'S ELECTRA. A vigorous new variety with very large flowers of bright red pink. Flowering period in November and again in March. Each.....

\$1.50

JOHNSON'S VIVID. This lovely variety is quite distinct with small, much toothed leaves up to 8 or more at a node. Flowers large, bright scarlet. November. Small.....

\$1.50

WHITE XMAS CACTUS. Z. delicatus. Large white flowers faintly flushed with palest pink. A beautiful and distinct species. I have only a very few single leaf plants to offer. Small.....

\$2.50

SALMONEUS. Thanksgiving Cactus. Salmon-red or scarlet flowers in November to December. Small plants.....

\$1.25

AMELIA MANDA. Large pale crimson blossoms, petals pink at base. Small plants.....

\$1.25

BAHAI. Late bloomer. "Leaves" short, plants compact. Free flowering. Flowers pale crimson. Small.....

\$1.00

W. A. MANDA. Leaves very wide, large. Growth open. Plant vigorous. Flowers pale crimson in February. Small plants.....

\$1.25

Parna. Very long "leaves." Growth open. Small.....

\$1.00

Early Flowering Xmas Cactus. Zygocactus bicolor. Very handsome free flowering scarlet variety. See page 14.

**A PENNSYLVANIA COLLECTION**

Mrs. Robert McClelland ordered her first cacti from us in 1948. She has grown and flowered many fine specimens since then. Many people visit her garden to admire her collection only a small part of which is shown here.

RAINBOW ASSORTMENT
COLLECTION E 10

3 fine Orchid Cacti in red, white and pink. These are all nice named varieties and should make fine plants. Pot them in 3" to 4" pots and shift to 5" pots when established. All labelled.....

\$2**RATTAIL CACTUS**
APROCACHTUS

These are old favorites that always give a good account of themselves. Mexican plants each quite different from the other. The flowers of three of them are in shades of pink with curved tubes two red lowered species are larger with almost straight tubes. Culture as for Orchid Cacti though they bloom more profusely with more sunlight.

APROCACHTUS CONZATTII. A stout, vigorous plant with large, deep scarlet red blossoms. It is larger in all its parts than the common Rattail Cactus. It enjoys a sunny location and a rich, porous soil. A handsome plant, easily grown. Large.....

\$1.50

APROCACHTUS FLAGELLIFORMIS. Rattail Cactus. This is the well known species. 75c and.....

\$1.25

APROCACHTUS FLAGRIFORMIS. Golden Pink Rattail. To me this is one of the most beautiful of flowering cacti. The flowers are 3 1/2" long opening widely the outer petals recurved. Inner petals an exquisite orange pink. Stems with pink spines when young.....

\$1.50

APROCACHTUS MARTIANUS. Giant Rattail. Stems up to 3/4" diameter and 4' long. Flowers large 4" long with expanded corolla 2 1/2" wide, scarlet red petals shaded with violet. Small plants.....

\$1.50**MISTLETOE CACTUS**

A pretty, compactly branched plant, Rhipsalis mesembrianthemoidea has small white blossoms followed by mistletoe-like white berries. The short joints have slightly woolly areoles. Likes shade and should be kept moist. Use a very open, porous compost. Native to Rio de Janeiro, Brazil. Each.....

50c

★ OPUNTIA



BEAVER TAIL

When in bloom the loveliest of all California cacti. *Opuntia basilaris* has glorious rose-pink blossoms each fragile petal like crumpled Chinese silk. Sandy soil with moderate watering sunny location. Each.....

40c



DWARF TREE OPUNTIA

Opuntia vilis grows to a well-branched, tiny tree some 4" tall. This charming Mexican species is particularly liked because of its tree-like growth. It should be planted in poor, sandy soil where it develops best. It requires a very light or sunny location. To keep small don't overwater. Each.....

35c

Below:

JOSEPH'S COAT

Opuntia vulgaris variegata is colored white, yellow, green and pink. A strong rooted, easily grown plant in sun or part shade. Each.....

40c



CRESTED OPUNTIA

Crested or cristate forms of cacti are among the most interesting and unique of all with their odd convoluted stems. *Opuntia serpentina cristata* never loses its cockscomb growth. Nice crests

50c and.....

75c

OPUNTIA JOHNSONII

This very pretty species I collected in Peru. The flowers are bright scarlet. Easily flowered. The pads are almost spineless and at the tip of each a single flower is produced. Its unique character is that the ovary is invaginated in the pad only the perianth showing.....

50c



OPUNTIA ACICULARIS

A handsome plant with rich chestnut-red glochids. The old pads each year grow more beautiful with added glochids. It should be grown in poor soil or sand and in full sun to develop best. The plant should only be handled with vegetable tongs. Do not touch it. Nice well developed pads 2 1/2"-3".....

\$1



ORANGE TUNA

Brilliant orange blossoms borne on almost spineless pads. A free grower the plant with age forming a trunk. *Opuntia elata* is a native of Paraguay. Likes a sunny location and moderate watering. Each.....

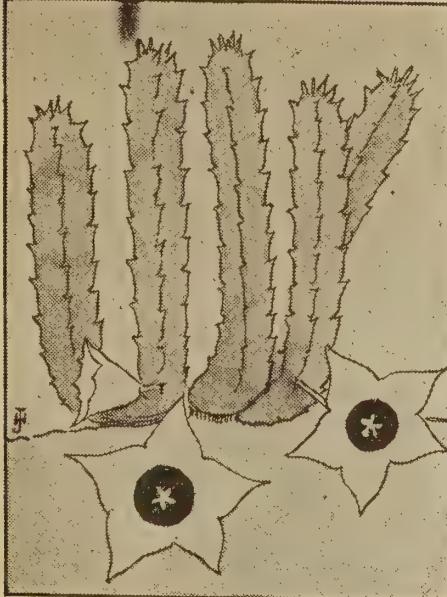
40c



PAPER SPINED OPUNTIA

An odd cactus from Argentina. *Tephrocactus glomeratus* bears paper ribands instead of spines! The joints come apart easily and each will root if planted in sand in a very sunny location. Give moderate waterings in summer, less in winter. Each.....

35c



RED DRAGON FLOWER

The pretty *Huernia schneideriana* bears delicately beautiful flowers with velvet red petals and black center. Flowers all summer. Moderate waterings. Small 35c. Nice

50c

HAWORTHIAS MIXED

A mixture of various types of Haworthias including *Haworthia setata*, *H. subfasciata*, *H. margaritifera*, *H. pilifera*, etc. All grow splendidly in our Jungle Mix. Seeds germinate quickly. Keep quite moist at all times. Very interesting small plants. Per packet

50c

PARAMOUNT HYBRIDS MIXED

This seed has been carefully collected from 100 of my better Easter Lily Cactus hybrids. They are the result of crosses between *Echinopsis* and *Lobivia* bringing together the lovely colors of *Lobivia* with the much larger, graceful flowers of *Echinopsis*. This has created a whole range of new colors not found in either *Lobivia* or *Echinopsis*. Shrimp pink, salmon pink, smoky rose, orange, red are all to be found. A good proportion of the plants should be well colored; all will have large lovely flowers. 50 seeds. Package

50c

MIXED PINCUSHION SEED

Mammillarias are one of our specialties and this mixture contains a very pretty and representative group. They germinate readily and can be flowered in two years. You will enjoy them. Per packet

25c

MIXED LIVING ROCK SEED

There are many kinds of living Rocks and we have one of the finest collections in this country. All seeds offered are grown by us. *Pleiospilos*, *Lithops*, *Lapidaria* and many others are included in this selection. Some seeds are very tiny. Per Packet

50c

The NEW SAND CULTURE for CACTI

Hydroponics is the scientific name for growing plants in culture solutions. The new science is rapidly proving its worth and for the cactus enthusiast has especial points of interest. One may grow his plants in clean porous sand, thus greatly reducing the danger of overwatering. This is of particular interest to collectors who live in damp, foggy or rainy places. Many choice or difficult plants thrive under this treatment, for cactus roots when well fed enjoy spreading in the air filled sand.

VITAMIN B-1

JOHNSON'S OWN B₁ TABLETS

For Use in Any Soil

Works miracles on Cacti and Succulents, often bringing refractory plants into bloom. Don't fail to use this wonder working solution. Better Homes and Gardens tests on cacti report wonderful success attained in flowering slow plants. Particularly valuable to stimulate new root growth after transplanting. 75 Double Strength Tablets with Full instructions.

75c

CACTI and SUCCULENT SEEDS

Cacti and many Succulents are readily grown from seeds. Some fast growing species make attractive small specimens within a year but most are slower in attaining size. Seeds germinate quickly depending upon temperature. Many will be up in two weeks at 60°. Keep seeds wet until well sprouted. Full planting instructions with each package. We recommend our Jungle Mix for seed sprouting. Purchases of 50c or more of seed will be sent without packing or postage charge.



DE LUXE MIXTURE

A superb mixture made up of over 75 species. There are no weedy cacti included. They are collected from our own plants many requiring hand pollination. Our cactus seed is not to be compared with other offered assortments for it is not made up of native weedy kinds. The very small seed contains some of the prettiest kinds as *Parodia*, *Rebutia*, *Notocactus*, etc. Put up in two packets of fine and coarse seeds. The collection.

\$1.00

MIXED CHIN CACTI

The *Gymnocalycium*s are charming, bright flowered globular cacti from South America. Easily grown and many flower over the entire spring and summer. Almost all flower the second year. Per packet

50c

STONE FACES MIXED

The Stone Faces or Lithops are the prizes of any collection. These handsome and entirely novel plants prove of interest to everyone. The seed germinates very quickly and easily. You will have seedlings within two weeks. After they are germinated put them in any airy, light window. About 100 seeds.

35c

NOTOCACTUS MIXED

Notocacti are all colorful spined plants with large blossoms. None are too large for the small window garden and all have stood 20° without cold damage. They are a diverse group, easily grown. Mixture contains Golden Ball, Silver Ball, Lemon Ball, Sun Cups, Indian Head over a dozen species. Package

50c

CHOICE SUCCULENTS

A mixture containing many rare and interesting species of *Mesembryanthemums*, *Aloes*, *Anacampseros*, *Echeverias*, *Cotyledons*, *Crasulas*, etc. Seeds vary greatly in size. The tiniest dust-like ones are often the choicest ones. Sow with care.

50c

MINIATURE CACTI SEED

A choice mixture of the finest toy cacti, including rare *Parodias*, *Notocacti*, *Gymnocalycium*, *Mammillarias*, *Echinopsis*, etc. Fifteen or more of the prettiest small growing types. Full instructions for planting. Per packet

50c

ACID PLANT-CHEM

Plant-Chem Acid Food. For acid loving plants. Good for Xmas Cacti, Epiphyllums, etc., where water is alkaline.

30c

PLANT-CHEM-SALTS

Now Grow Prize Cacti the Easy Way
Cacti grown in pure sand and watered regularly with this nutrient solution make a vigorous normal growth. Contains in scientific proportions the thirty chemicals needed in the growth of all plants.

16 gallon package.....30c
100 gallon package, postpaid.....\$1.20
400 gallon package, postpaid.....\$2.25



JOHNSON'S SAND CULTURE KIT

COLLECTION H 23

Complete instructions on growing Cacti and Succulents in sand with nutrient solutions. Simplifies watering. Makes the most difficult desert plants of easy culture. Particularly useful where winters are long and damp.

Full instructions, 16-gallon package Plant Chem. 75 Johnson's B₁ Tablets. 50c package Cactus Food.

\$1.35

CACTUS and SUCCULENT SOCIETY OF AMERICA



The Cactus and Succulent Society was organized more than 25 years ago to bring together those interested in these extraordinary plants and to publish a magazine which would provide a forum for the exchange of information and for the publishing of new species and scientific

data. The Journal, under the competent editorship of Scott Haselton, has well achieved these aims, and today is the world's foremost publication about these plants.

Everyone is invited to join the Society and to receive this splendidly illustrated magazine. It has many articles on new plants, stories on exploration trips to new localities, articles on culture, news of affiliated Cactus Clubs in every region of the U.S. Everyone interested in Cacti and Succulents will continue to find this a most interesting magazine.

Membership and Journal—
Six double issues a year.....\$4.00
Europe, Africa and Asia.....\$4.00

CACTUS SUPPLIES

JOHNSON'S CACTUS COMPOST

Mix With Your Own Sand and Soil

An economical compost for Cacti and Succulents which when mixed with equal or larger quantities of both sand and light loam makes a very suitable soil for all desert plants. Composed of our recleaned sclerophyllous leafmold, lime, gypsum in the proper proportions for all potted cacti. A light and bulky mixture, the same as we use in our potting soils for both seedling and specimen plants.

384 cu. inches.....\$1.95

(May be ordered separately postpaid)

115 cu. inches enough for 6-10 quarts of potting soil.....75c

HARDWOOD CACTUS CHARCOAL

Useful in keeping cactus soils sweet and aerated. Helpful in heavy soil

Per Quart. Granulated.....50c

ODDS and ENDS

COLLECTION E 4

We offer here an unlabelled assortment of Cacti and Succulents at a very low rate. After each packing and shipping day there are many plants left over, rare as well as common varieties. We offer these at 10 plants.

\$1.50

CACTUS INSECTICIDES

ROTEX SPRAY. A safe spray for all Succulents and Cacti. Non-toxic to animals or humans. Rotenone, Pyrethrum and Pine Oil are the essential killing agents. For Mealy Bug, Scale, Aphis, Caterpillars, etc. Chart describing Cactus and Succulent pests with instructions for use, Rotex 2-ounce bottle.

75c

VOLCK SPRAY. An oil spray for Scale and Mealy Bug. These insects have a waxy covering which repels water but is easily penetrated by oil emulsions. We have used Volck for years and find it safe and reliable. 4-ounce bottle with insect pest chart and full directions.

50c

SUPPLIES for CACTI

VERY few things are needed by the beginner in cactus culture but interest and a desire to form a collection. Loam for potting your plants may be found in field or woodland. Scrape off the litter and use the top 6" of soil. Sandy soils are best. Clean



JOHNSON'S JUNGLE MIX

A new type of cactus compost for epiphytic cacti which prefer a very open, porous type. Plants develop a vigorous, extensive root system seldom seen in other composts. Expressly for Xmas Cactus, Easter Cactus, Rhipsalis, Chiapasia, Selenicereus and all epiphytes. It is also unexcelled for rooting all cacti and succulent cuttings. It may be easily modified into the finest potting soils you ever used for Philodendrons, Begonias, African Violets and all tropical house plants. It should be kept much more moist than old style composts as it dries rapidly. Full instructions for use or modification.

Per bag 120 cubic inches (with orders) 75c
6 quart box. Postage free.....\$2.00
West of Mississippi River \$1.75

JOHNSON'S CACTUS FOOD

A very effective fertilizer with a good organic base the ingredients of which are blended and proportioned to help your plants make normal, matured flowering growth. It should be scattered over the soil, a level teaspoonful to a 4-inch pot, two or three times during the growing season after the plants are well established. Use only during the growing season. Light applications once a month are more effective than heavy applications.

12 ounce bag.....50c
2 pound bag.....\$1.00

OUR SPECIAL CACTUS LEAFMOLD

A recleaned, sclerophyllous desert leafmold, sifted, light and dry. Mixed with equal parts of both sand and loam, it makes a fine, economical cactus soil.

115 cu. inches enough to make
6-10 qts. potting soil.....75c

CACTUS HELPS

COLLECTION S 100

Items to make the growing of your plants easier and more enjoyable. Included here are all the things to root and grow your plants except loam and sand. Sand may be purchased from poultry houses or builders. Loam from garden or hillside.

Book, "Cacti and Succulents and How to Grow Them." 75c package Johnson's Jungle Mix.

Johnson's Cactus Food.

Johnson's Cactus Soil Conditioner.

Quart of Cactus Hardwood Charcoal.

20 double strength B, tablets.

50 Painted Wooden Plant Labels.

7 Items to Make Cactus Growing \$3.00
Easy. Postpaid

PLASTIC LABELS

Permanent labels for plants poses a very difficult problem for the collector. Wooden labels while quite satisfactory do not of course last indefinitely. These plastic labels last for many years and outside of copper or zinc labels, which are difficult to affix to the plant, are the best solution I have found to date. Lead pencil writing lasts very well indoors or in the greenhouse. Outdoors it eventually weathers off. Grease pencils are useless. Water proof India drawing ink has proven the best medium for permanent labeling.

3 1/2" x 1/2". Plastic pot labels. Per 100 \$1.25

4 1/2" x 1/8". Large, shaped labels for outdoors or pots. Per 100.....\$1.75

sand may be purchased from builders or pet stores. For the city dweller and more serious collector we are offering a few things that may make their culture easier. The supplies we offer are those we ourselves use.

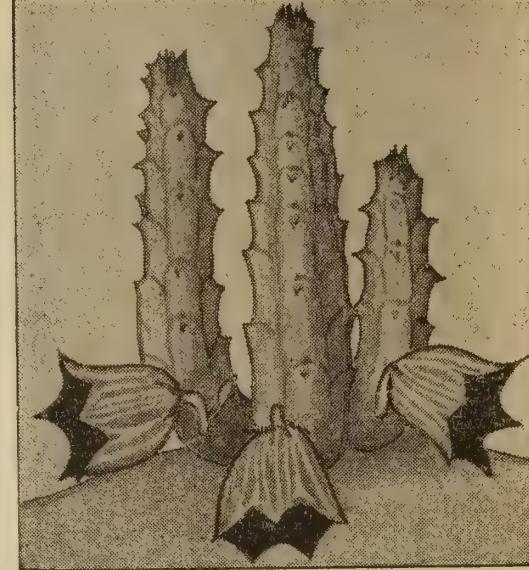
JOHNSON'S CACTUS SOIL CONDITIONER

Of great assistance in keeping cacti in good health, it is designed to add the minerals ordinary garden soils often lack. Desert soils are often high in mineral content, for there is little rain to leach them away. A spoonful of my Conditioner placed about a Cactus plant and stirred lightly into the soil will often bring an ailing one back to health. Mix it with your potting soils.

Small Size, 10 Ounces, Postpaid.....60c
Large size, 32 Ounces, Postpaid.....\$1.00

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KENYA DRAGON FLOWER

A pretty Dragon Flower with dark crimson-red, bell shaped flowers. *Huernia keniensis* is an easy and vigorous grower and blossoms from spring to cold weather.

35c

TERMS

I GUARANTEE SAFE DELIVERY

Anywhere in the U. S. or Canada

During the cold months of December and January we do not like to ship east of the Rocky Mountains. Packages get rough handling during the Christmas mail rush also. We do ship to the Pacific Coast and South Western States all year.

50c packing and postage charge on orders of less than \$2.50 due to increased costs.

10% postage charge on orders of from \$2.50 to \$5. Thus add 25c to \$2.50 or 30c to \$3 orders. This is generally only part of actual postage.

FREE delivery on orders of \$5 or more.

How to remit: By check, postal note, money order or postage stamps of large denomination. 50c and \$1 stamps accepted.

No. C.O.D. orders accepted.

How we ship: By Parcel Post which delivers direct to your door. All plants are passed by State Horticultural Inspectors to insure freedom from insect pests. They are packed by experts in specially made cartons and clearly marked "Rush—Perishable Tender Plants."

OUR GUARANTEE is for safe delivery of clean, healthy stock correctly labelled. We cannot undertake to make good plants lost through improper care. If plants are injured in transit and we are notified at once we will give credit for all damaged items to be replaced with your next order.

FOREIGN SHIPMENTS

We ship regularly to practically every country not in the communist zone. We are familiar with most rules and regulations and with customs requirements and you will have no trouble with our shipments.

Cacti travel well via parcel post. Succulents should go by air freight only.

Postage charges are 30c per pound due to new increase. To figure weight of plants: 6 plants per pound including packing materials. Minimum foreign orders (not including Canada) are \$5.

JOHNSON'S VITAMIN B1

For all house plants. Page 17.

ROOTWELL

Want to raise Cactus cuttings? Our new hormone powder for rooting refractory cuttings of all kinds designed particularly for quickly rooting Cacti and Succulents. Sterilizes the cut surface and induces luxuriant growth of roots. Apply dry with finger to fresh cut.

Full Directions. Per Package.....50c

★ PINCUSHION CACTI or MAMILLARIAS

PINCUSHION Cacti are at home in the window garden. They never grow out of bounds and mature flowering specimens are easily grown in small pots. It is surprising how nature produces so many variations on a single theme. Certainly in the Mamillarias she has extended herself. Some are tiny globes, some grow 4' tall, some are solitary, some form clusters, others great mounds with over a hundred heads. There are snowy white ones, yellow, golden and green. Some have long silky hair or snowy plumes, strong hooked spines or stellate clusters. Many bloom in winter. There are tiny flowers others almost dollar sized. White, pink, red and yellow flowers.

CULTURE. The greater number do very well with ordinary care. A sandy loam soil that drains quickly as like all cacti they resent wet feet. They prefer a sunny window not too far from the glass and when possible plenty of fresh air. Water only when soil is dry which is a good rule for almost all cacti and succulents. If you can, in summer put them outdoors to mature the growth. Fertilizer should be lightly applied only in summer.



FEATHER CACTUS

Certainly one of the most unique and pretty of cacti. *Mamillaria plumosa* has its spines transmuted into curling feathers. Snowy white and as soft as down they completely cover the plant. Easily grown in clean sand with a little leaf-mold added. A bright airy situation protected from noonday sun. Large clustered specimens \$5. Smaller clusters \$1 to \$2.50. 50c Small 1" plants each.

VARIOUS MAMILLARIAS

Mamillaria albescens. Similar to Birds Nest 50c
....
M. albicoma. Handsome, rare, woolly, white clustering species. Each.....\$1
M. angularis. Large, clustering, handsome species. Red flowers embedded in white wool. 3 years 2 1/2"-3" \$1. Small.....40c
M. aurihamata. White hair, long yellow central50c
M. baumii. Handsome bright yellow, large flowers. Compact clustering plant. Flowering. 75c
M. bicornuta. Large clustering species. 2"-2 1/2".....75c
M. brandegeei. Rare. Baja California....75c
M. brauneana. Scarce. Pretty plant. 1"-1 1/2".....50c
M. bravoe. Handsome. Light red flowers. Beautiful flowering specimens with white wool. 4 years\$1
M. bucareliensis. Clustering. 1"-1 1/2"....50c
M. bullardiana. White flowers. Rare....75c
M. calacantha. Large yellow plants. 1"-1 1/2".....50c
M. candida. SNOWBALL PINCUSHION. 1 1/2"-2" 75c. Small.....50c

MEXICAN JEWEL COLLECTION No. E14

4 to 5 inches in diameter for a Dish Garden. They all do well in any well lighted window with moderate watering. The set for only...



ROSE PINCUSHION

The bright and charming *Mamillaria zeilmanniana* is one of my prime favorites. It is a very heavy bloomer and remains in flower several weeks. Even tiny plants always flower. Sun or partial shade. Large 2 years 75c. Nice flowering size.



CORAL CACTUS

The Coral Cactus (*Mamillaria heyderi*) is one of the prettiest with its circlet of coral-red berries and charming cream flowers. The berries burst forth ripe and scarlet taking only a few days to appear. Mature fruiting 2" to 3" specimens each.

50c

These four pretty and easily grown Pinchusions may be planted in individual 2 or 3 inch pots or may all be planted together in a small ornamental dish \$1.10

POWDER PUFF (*Mamillaria bocasana*)

Like a bursting cotton ball, this little plant is clothed with silky, snow-white hair instead of spines, though it bears one tiny hooked one on each slender nipple. Cream colored flowers followed shortly by very attractive bright red, long, curved seed pods. A jewel among cacti. Very easy to grow in a well lighted window. Sun or partial shade, moderate watering. Flowering and fruiting specimens large \$1. Small 35c. Nice 3 year old flowering.....50c



LADY FINGERS

Mamillaria elongata schmollii

A dainty gem and so easy to grow. Each little plant is a bright mosaic of golden yellow harmless spines. Quickly forms fine clusters. Clusters 50c. Small.... 35c



THIMBLE CACTUS

Mamillaria fragilis

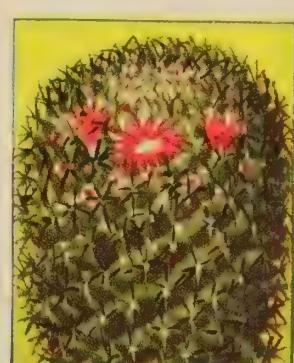
Like the "old woman who lived in a shoe," this little cactus has more children than she knows what to do with. Pure white, harmless spines and every little baby will quickly grow. Each..... 35c



RUBY DUMPLING

Mamillaria tetracantha

A quick growing cactus with bright red flowers and, with maturity, a hoary white head. A long time favorite. Large specimens \$1. Smaller flowering 50c. 1 year..... 35c

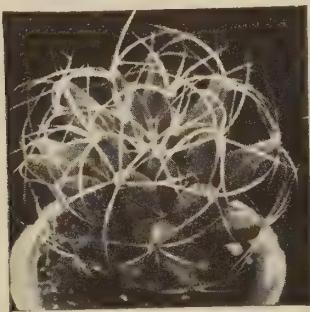




HUMMEL'S POWDER PUFF

Differs from the popular Powder Puff as it offsets all the way up the plant thus forming a conical, tall, tight cluster. Distinct and beautiful, pure white. Quick grower soon making a nice specimen. Nice many headed 3" clusters. \$1.50. Fine clusters as in photo above.

\$1



BIRDS NEST

Curling, feathery, yellow spines that are papery, soft and harmless. A quick growing plant that soon forms nice clusters. Individual heads up to 2" in diameter. *Mamillaria campotricha* grows well in sun or part shade. A light sandy soil and moderate waterings. Small. 35c. 3 year clusters. 75c. Nice plants..

50c



JELLY BEANS

A small variety of the Thimble Cactus. *Mamillaria fragilis minima* bears many branches each of which will make a new plant

35c



GRAPE CACTUS

This tiny cactus bears an endless quantity of "pups" each one of which will grow. Grows easily in sun or shade the cream flowers followed by scarlet berries. Clusters.

35c



MAMILLARIA PSEUDOCRUCIGERA

A pretty conical species with white spines and red flowers. The heads branch in pairs time and again. 4 years old \$1. Small 1"

50c

Mamillaria hahniana superba. An especially fine variety with long, silky, white hair even in small plants. 2 years old. 85c

M. hamiltonhoiae. A handsome single headed species that may reach 9" in diameter. Flowers pale red embedded in white wool. 3 years old 2" to 2 1/2" each. \$1

M. haseltonii. Very near to *M. hahniana*. A large, white, hairy species with red blossoms in late fall and winter. 2"-2 1/2", 4 years, flowering.

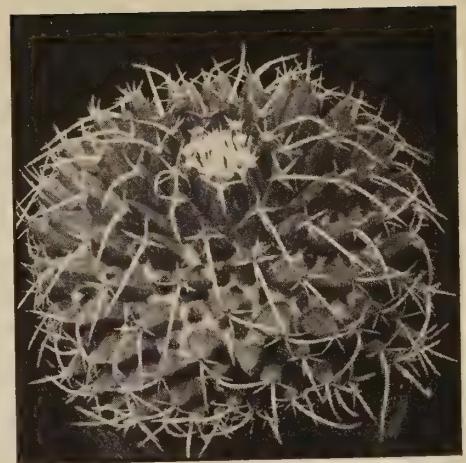
M. herrerae. GOLF BALL. Snowy white, fine harmless spines. 1" to 1 1/4" \$1

OLD LADY CACTUS

Mamillaria hahniana is an old favorite, a worthy consort of the Old Man Cactus. It bears curly white hair. Old plants become covered with long white hair. It is lovely in fall and winter when the bright red blossoms form a colorful ring about the crown each embedded in white down. It flowers with us outdoors even in freezing temperatures. Easy to grow in a sunny, airy position. 7 year old flowering specimens 3" each \$2.25. 2"-2 1/2" \$1. 1 1/2" 50c



<i>Mamillaria hoffmanniana</i> . A pretty, solitary species	40c
<i>M. ingens</i> . A new species. Small.....	40c
<i>M. kewensis</i> . A tall growing species with hoary white head in age and brilliant red blossoms.	50c
<i>M. kunthii</i> . A large species with white spines tipped brown. Crimson flowers. 2"....\$1	
<i>M. lloydii</i> . Solitary with short conical nipples. Flowers pink. White wool. 2"-2 1/2"....90c	
<i>M. magnimamma</i> . Large nipples. Cream flowers.....	50c
<i>M. martinezii</i> . Tall, reddish yellow spined species. Flowers lovely red. Large 2"-2 1/2"....75c	
<i>M. mazatlanensis</i> . A rare clustering species. 50c	
<i>M. melanocentra</i> . A splendid, flat-topped species with large, angled nipples. Flowers 3/4" diameter, brilliant pink in color! 1"-1 1/4"....35c	
<i>M. microhelia</i> . Bright, lovely small species. Spines harmless, lively yellow. Flowers pink or yellow. Charming. 1"1/2" 3 years old.....50c	
<i>M. miehiana</i> . Finger-like clusters of pale, clear yellow. Pretty. 2"-2 1/2".....50c	
<i>M. mutabilis</i> . A bright red-flowered, globular species with mixed white and dark brown spines. A fine specimen plant. 1" 35c.	
Larger.....	50c
<i>M. nigra</i> . Lively red blossoms embedded in white wool. Plant tall. 1" each.....35c	
<i>M. nunezii</i> . Tall pale yellow spined, crimson flowered species. Specimens 3" \$1. 2"....60c	
<i>M. pentacantha</i> . Rare. Red flowers.....50c	



BIRD'S FOOT PINCUSHION

Mamillaria centricirrha is a large species with long, curved, central spines. Plants flat-topped. Flowers cream striped pink. Fruits large, carmine-red. Native to the high tablelands of Mexico. Will stand 15' of frost. Nice 1"-1 1/4".....

65c

MAMILLARIA ASSORTMENT COLLECTION E 15

10 small *Mamillarias* suitable for small pots or dish garden including white, yellow and other colors of spines. Plants averaging 1" in diameter. Unlabelled for only.....

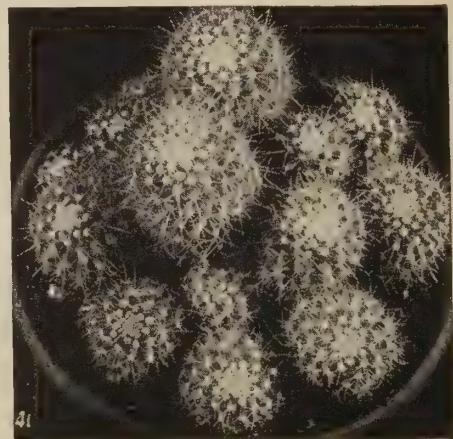
\$2



GNOME'S PINCUSHION

Mamillaria decipiens flowers when quite small and its pale yellow spines and quantities of babies make it a great favorite. Grows anywhere the white blossoms appearing as early as January. Nice plants each.....

35c



YELLOW RAINBOW PINCUSHION

The varieties of *Mamillaria rhodantha* are very variable. They have charming ruby red blossoms and this one has clear yellow spines. They are first solitary and are fat golden columns. Large 3 year old 75c. Nice 1"-1 1/4".....

50c

<i>Mamillaria schmollii.</i> A much branched white species.	50c
<i>M. seideliana.</i> Attractive scarce species. 2½"	75c
<i>M. sempervivi.</i> Pink flowers. 1"–1½" 75c	
<i>M. supertexta.</i> Very white plant. 1½"–2" 75c	
<i>M. surculosa.</i> Thickly clustering, long nippled species with curling, harmless spines and large bright yellow flowers 50c	
<i>M. trichacantha.</i> Large white flowers. Hooked spines. 50c	
<i>M. trochartii.</i> 2"–3" 90c	
<i>M. vaupelii.</i> Handsome red and yellow spined. 1½" to 2" 60c	
<i>M. viereckii.</i> Rare. Slender nipples. Each. 75c	
<i>M. viperina.</i> Slender, yellow, finger-like stems. 50c	
<i>M. wiesingeri.</i> Bright red blossoms. Tall. 1½" 50c	
<i>M. winteriae.</i> Huge growing. 2"–2½" 4 years. 1\$	
<i>M. waltherii.</i> Dark reddish brown plant, cream flowers. 2"–2½" 75c. Larger. 1\$	
<i>M. woodsii.</i> Rare. 1½" 75c. 1" 50c	



DIADEM CACTUS

Don't fail to have this lovely flowering cactus. The bright carmine flowers are a beautiful crown nestling amongst the white wool and dark spines. *Mamillaria werdermanniana* flowers in mid-winter and always attracts attention. Small 35c. Small 50c flowering size.

50c

ESCOBARIA

Mamillaria-like, white or yellow spined plants. Culture as for *Mamillaria*.

Escobaria tuberculosa. Solitary or branching. Spines white, blossoms pink. Flowering. 50c

E. roseana. Rare, bright yellow spines, tuberous roots. 75c

E. chaffeyi. White spined; clustering. 50c

DOLICHOPOLE

Closely allied to *Mamillaria*. Same culture.

Dolichopole sphaerica. BUTTER PINCUSHION. Handsome, large, butter yellow blossoms. Clustered with tuberous roots. Blooms throughout the summer. Nice 75c and. 50c

SOLISIA

Like a small *Mamillaria*. Same culture.

Solisia pectinata. A small plant ½" to 1" across with minute nipples and very fine white spines covering the plant. Quite rare. Flowers white. A collectors item. Each. \$1.00



MAMILLARIA CELSIANA

A very attractive species with yellow spines each nipple with a woolly axil. Flowers bright red-pink. With age forms most beautiful large clusters. Specimens 2½" to 3½" \$1.25. 3 years 2" 75c. Nice 50c

50c

CORYPHANTHA

A handsome group of large *Mamillaria*-like plants generally with very large flowers. Of easy culture. Should be in all collections. Many bear young plants on the tubercles!

Coryphantha andreae. Handsome, white woolly species. Large, fat, rounded, glossy green tubercles bearing plantlets. Flowers large, yellow. 2½"–3" flowering specimens each. \$1

C. bergeriana. Large flowered. Tubercles conical without wool. Slow growing. 50c

C. bumamma. A fine large species with much white wool. The big rounded tubercles grooved above, bearing plantlets. Large yellow blossoms. 2" 75c. Smaller. 50c

C. clava. Pretty species with long nipples, white spines. 35c

C. difficilis. Rare. 1" 50c

C. durangensis. Tall, slender. 1½" small flowering. 75c

C. elephantidens. Pink flowered. Small. 50c

C. gladiispina. Solitary, tall spiny species. 1½" 60c

C. longicornis. Solitary, globular. 50c

C. ottonis. Globular, yellow spined, white flowered. 50c

C. pycnacantha. Fine. Yellow spined. Flowers large. 2½"–3" 90c

C. radians. Clustering. Large yellow flowers. 2"–2½" 75c. Smaller. 50c

C. roederiana. Clustering. 50c

C. vaupeliana. Handmade. 50c

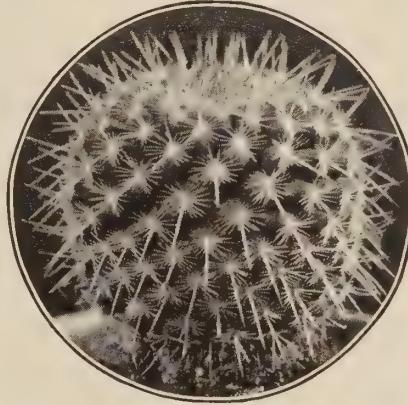


SILKEN PINCUSHION

Considered by many to be the prettiest of the Pin cushions. *Mamillaria bombycinia* is truly an exquisite plant. The nipples are in perfect spirals each tipped by 30-40 glossy white slender radial spines with 2-4 erect centrals the lower strongly hooked yellow in color. Abundant snowy wool fills the axils and covers the top of the plant. Flowers a charming shade of pink. Easy to grow in a light position. Nice 2½"–3" specimens \$1. 1½"–2" 75c. Small specimens 1¼" 50c

Cactus Magazine

Join the Cactus and Succulent Society of America and receive the Journal a 32-page magazine well illustrated with many features on cactus culture. Six fine issues a year \$4 Send applications to us.



OWLS EYES

A well known plant to fanciers. *Mamillaria parkinsonii* has snowy white spines. It branches by forking the heads dividing into two. Handsome. 5 years old or more, 2 to 4 heads \$1.50 to \$2.50. Small. 50c



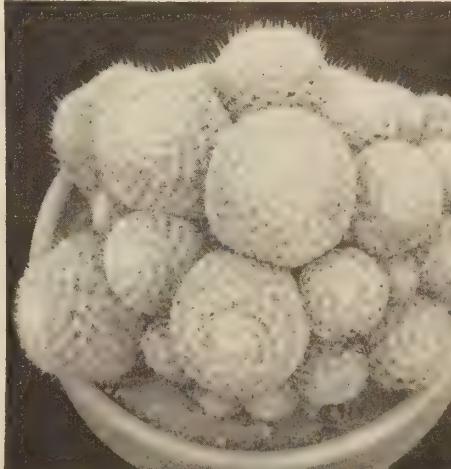
GOLDEN STARS

The lovely popular *Mamillaria elongata* should be in every collection. Spines bright yellow. Very easily grown and branches freely the first year soon making a nice specimen. Flowers yellow, fruit red. Sun or shade. Small single stems 35c. Nice branching. 50c



MAMILLARIA DEALBATA

A handsome white spined variety much faster in growth than *M. elegans* to which our plant is allied. It forms nice clusters, has pretty red blossoms and scarlet fruits. Easily grown. Likes a sunny window, moderate watering. 3 year flowering 50c. Small. 35c



CORYPHANTHA SCOLYMOIDES

A large yellow flowered species blooming in early summer. The conical, dark green nipples are directed upward; the central spine slightly hooked and directed downward. A slow growing plant with thick roots. Likes a porous soil, moderate waterings. Cactus food helps with flowering. Fine 1½" flowering size 4 years old. \$1

STAR FASCINATING OF ECHINO



VIOLET SEA URCHIN

A lovely flowered small cactus blossoming profusely several times in late spring and summer. The flowers of *Acanthocalycium violaceum* are particularly bright and shining. They flower when $1\frac{1}{2}$ " to 2" in diameter which they reach the third year seldom exceeding 3" in diameter. Strong rooted plants they grow readily in sun or part shade flowering best if grown in full sun. Small plants 35c. 3 years old each.....

50c

ASTROPHYTUM

To this fine group belong some of the most popular and pretty cacti found in Mexico. They are very satisfactory growing under many kinds of treatment. They need an open, sandy soil and a sunny, airy location. Will stand temperatures to 15° above zero. Water only when dry.

Astrophytum asterias. SAND DOLLAR. A scarce, completely spineless variety with large yellow blossoms. Flowers all summer. Best soil for planting is sand with some leafmold added. Water when dry. Photo page 26. Large specimens \$1.25. Flowering $1\frac{1}{2}$ "-2".....90c

Astrophytum capricorne. See color plate page 28.

Astrophytum ornatum. STAR CACTUS. See photo page 28.

A. ornatum mirbellii. Whiter variety.....75c

A. myriostigma. BISHOP'S CAP. See color photo page 25.

A. myrio. coahuilensis. An unique variety with much closer set white hair, nice yellow blossoms, seed pods reddish. Smaller in growth than Bishop's Cap. **Large flowering size $2\frac{1}{2}$ "- $2\frac{1}{2}$ "** \$1. Smaller flowering size.....50c

A. myrio. columnaris. Unique, tall slender variety quite white. 2"3".....80c

A. myrio. nudum. Almost hairless green variety. Each.....\$1

A. myrio. potosina. Large fast growing variety. Nice flowers. 2 $\frac{1}{2}$ "-3".....\$1

A. myrio. tamaulipensis. Large white variety. Large flowers. 1 $\frac{1}{2}$ "-2".....90c

TOM THUMB

Parodia aureispina should be a "must" for even the smallest collection. A jewel with lovely golden spines and flowers. Even tiny plants flower. Part shade or sun. Grows easily and quickly. Very choice. **Large $2\frac{1}{2}$ "-3"** \$1.25. Smaller 2"-2 $\frac{1}{2}$ " \$1. Small. 35c. Nice flowering.....

50c

ARIOCARPUS

Thornless Mexican plants bearing hard tubercles and white or violet pink blossoms. Rare show plants. All our plants are mature flowering specimens. Extremely slow growing. Pot in sand with some leafmold added. Need a sunny airy location, watering only when quite dry.

Ariocarpus fissuratus. MEXICAN LIVING ROCK. Beautiful, lively pink blossoms in summer. A curious, brown-green, flat-topped plant with leathery tubercles. Very slow growing. An unique plant for your collection. Plant in sand and leafmold. Plants in established large flowering specimens.....75c

Ariocarpus furfuraceus. A fine large species, silver-green in color with large tubercles set in much wool. Large flowering imports.....\$2.25

A. kotschoubeyanus. Handsome, olive green species with flat-topped tubercles, bright violet rose flowers. Mature specimens.....\$1.25

A. macdowellii. The smallest species. Handsome, some violet pink blossoms.....\$1.25

A. retusus. The largest, with grey-green tubercles. Pale pink. Splendid specimen plant. Each.....\$2.35

ANCISTROCACTUS

Small, conical cacti to 6" having rather thick roots. Native to Texas and Mexico. Of easy culture.

Ancistrocactus scheerii. Wait-a-Bit. The central spine is hooked. This easily flowered plant likes a sunny location. 2"-3" flowering size.....50c

AZTEKUM

A rare, collector's plant 1"-2" in diameter, spineless with tiny ridges. Needs full sun and a very porous soil watering only when dry. Flowers pale pink.

Aztekium ritteri. The only species. Mature flowering imports each.....\$2



PYGMY EASTER LILY CACTUS

The extremely free-flowering *Echinopsis hamatacantha* bears many long-tubed, white or pale pink tinted blossoms during spring months. They are mountain plants from Argentina and do well either in partial shade or sun. The plants have harmless spines and are fast growing flowering when small. Mature plants will have a dozen or more flowers. Give them a good loam soil and moderate to generous waterings. 2"-3" flowering specimens 75c. Smaller flowering specimens 1 $\frac{1}{2}$ " each.....

50c

AREQUIPA

A fine group from northern Chile and Peru. Culture as for *Notocactus*.

Arequipa hazelae. A new species from Peru. Flowers crimson, long, tubular with expanded limb. Plant to 4" clustered. 1 $\frac{1}{2}$ " each.....\$1

EPITHELANTHA

Most interesting small cacti with minute nipples and tiny white spines. White flowers followed by scarlet berries. An open soil, sunny location, moderate watering.

Epithelantha micromeris greggii. Button Cactus. This variety grows many times as large as the species. Imported Mexican plants 1 $\frac{1}{2}$ "-2".....\$1

THIS great group is mostly ball or barrel-shaped and only grow tall with great age. Some of the cacti listed here are more closely related to the *Cerei* but due to their shape and culture are included for convenience. They vary greatly in many ways. Some are tiny plants, marble size, others may be several feet tall and two feet through at maturity. They are found in either North or South America from Canada to Patagonia. Since the two continents have been almost separated for millions of years most of the groups or genera are found only on one continent. To the North American group belong the true Barrel Cacti, *Echinocactus* and *Ferocactus*, the Bishop's Cap, *Leuchtenberga*, *Arriocarpus*, *Thelocactus* and numbers of less well known genera. In South America there are many beautiful kinds quite different to those found in the north, *Parodia*, *Neopoteria*, *Malacocarpus*, *Notocactus*, *Pyrrhocactus*, *Gymnocalycium* and others, all having many species. Those of *Cerei* relationship but of ball type include *Lobivia*, *Echinopsis* and *Rebutia*.



SILVER BALL

An elegant silvery spined small cactus that always attracts attention. *Notocactus scopula* grows well under varied conditions. Bright lemon yellow blossoms which expand flat in the sunlight. Porous soil, moderate watering, sun or part shade. 5 year old flowering.....

50c

CACTUS SEEDS

See page 17 for various mixtures of cactus seeds.



CHAPLET CACTUS

A pretty plant of dark blackish green, when fully grown the size of an orange. In late spring it produces a circlet of white blossoms and in summer large, red fruits. Strongly spined, *Gymnocalycium delaei*, is very "cactusy" looking, a fine specimen type. Large flowering 6 year old specimens \$1.50. Smaller plants 40c. Nice 1 $\frac{1}{2}$ " plants 3 years old.....

60c

BARREL CACTI CACTUS

Among the South American kinds are many smaller and less known genera which have beautiful, bright flowers or curious growth forms. Almost all of the plants have ribbed stems and this accordion effect, well shown in Bishop's Cap, allows the plant to expand rapidly without bursting after the rains. Thus they can store considerable quantities of water to last them through the long dry seasons.

CULTURE: Most of the Barrel Cacti require much the same care. They like an open or porous soil through which surplus water quickly drains away. A good soil or compost is composed of 1 part crumbly loam, 1 part clean sharp sand and from $\frac{1}{2}$ to 1 part coarse leafmold or peatmoss. Coarsely granulated charcoal is often added to keep soil "sweet." You may vary the proportions to suit your experience. Give them a sunny or very light position and see they get plenty of fresh air. Water moderately only when soil is dry. The soil should dry out in 5 to 10 days depending on the weather.



SCARLET CROWN CACTUS

Rebutia grandiflora is the largest flowered of the Crown Cacti and one of the choicest window garden plants. It blooms very freely in the spring over quite a long time. New buds appear as old blossoms fade. It likes a light position but sheltered from the direct noon sun. Water well but allow to dry out between waterings. Spongy, sandy composts which suit them dry out rapidly. Larger 75c. Smaller 1"-1 $\frac{1}{4}$ " 50c

PINE CONE CACTUS

Encephalocarpus strobiliformis is spineless; closely related to Ariocarpus. It has lively violet-pink blossoms in late spring. A rare collectors item. Sand and leafmold in full sun. Mature imported specimens. \$2

OBREGONIA

Obregonia denegrii is a relative of Ariocarpus. Almost spineless with silvery-green tubercles. Pretty white blossoms. Mature imported specimens. \$2



SCARLET BALL CACTUS

Notocactus hasselbergii is a very handsome and scarce cactus seldom seen in collections. The short, bristle-like spines are glossy white. In early spring the spectacular crown of scarlet flowers makes its appearance lasting for weeks. Of easiest culture. Flowering specimens 1 $\frac{1}{2}$ " to 2" \$1. Smaller 1" 50c

ECHINOPSIS EASTER LILY CACTI

The plants listed here are among the most beautiful and satisfactory of all cacti. The blossoms of all are quite large, trumpet-shaped and in various colors, white to pink and red. Vigorous rooted plants they enjoy a rich soil and during the spring and summer fairly generous waterings. To bloom best they require sun and fresh air. If they can be put outside in summer their growth will mature better and produce more flowers particularly if given small applications of cactus food. Offsets are best removed to concentrate strength, and hence flowers, in the main stem. All will stand temperatures of 20° or less. *E. multiplex* will winter in Canada if covered by snow, perhaps others also.

Echinopsis ancistrophora. Photo page 31.
E. apiculata. Near *E. huottii*. 75c
E. calochlora. Handsome white flowered species. Lively green, shining plant. Each 50c
E. cordobensis. Strong spined, dark green plant. Flowers white. Stands much cold. 50c
E. derenbergii. Rare. White or pale pink, large blossoms. Spiny. 75c
E. eyriesii. Huge pink blossoms. 75c
E. fiebrigii. Huge white blossoms. 75c
E. grandiflora. See photo page 26.
E. Heavenly Twins. Ruffled pink blossoms. 50c

E. Johnson's Hybrid. A beautiful deep pink, frilled 8" blossom. Nice. 50c
E. kermessina. Magnificent, brilliant ruby-red blossoms 6" long. A lovely plant of recent introduction. Splendid! Large 5 year old flowering specimens \$5. Small 3/4" to 1" 50c
E. leucorhodantha. Small very free flowering. White to pale pink 3" blossoms. 50c
E. longispina. Large, solitary, long spined plant. A rare, unique species. 3". 4 years. \$1
E. Los Angeles. Splendid! Huge 7" frilled deep pink blossoms. Spines short, blunt. 50c



GOLDEN BALL

A very lovely small cactus with glittering golden, harmless bristles. *Notocactus leninghausii* is a fine plant for the window garden. Of the easiest culture. Nice 2 $\frac{1}{2}$ "-3" specimens \$1. Small 35c. 3 year old. 50c

Echinopsis nigra hybrids. Like the species, large plants, strong spines. Flowers in various shades of pink or white. Large 2 $\frac{1}{2}$ " \$1. Small 50c
E. obrepanda. Handsome wide opening white blossoms. 50c
E. polyanicistra. Small plant bearing graceful 6" white blossoms extremely freely. 50c
E. rhodotricha. VIOLET EASTER LILY. Vigorous with 5" violet tinted blossoms. 1 $\frac{1}{4}$ "-1 $\frac{1}{2}$ " 50c
E. shaferi. Yellow flowered. 1 $\frac{1}{2}$ " 40c
E. smrziana. Clustering. White blossoms. 2"-3" 50c
E. spiniflora. Photo page 27
E. sylvestrii. Spiny. 6" white flowers. 50c
E. sylvestrii. Spiny. 6" white flowers. 50c
E. tucumanensis. Clustering. Rare, white. \$1

FRAILEA

Small plants often clustering. Flowers butter yellow. May produce seeds without the flowers opening.

Frailea colombiana. Yellow spines. 50c
F. dadakii. 6 years old. 50c
F. pseudopulcherrima. 4 years old. 50c
F. pumila. Argentine imports. 50c
F. pygmaea. 1" 50c
F. schilinzkyana. Clustering. 50c



RAINBOW CACTUS

Echinocereus melanocentrus is sure to flower in spring and summer and generally has buds when shipped which continue to grow and open. It flowers often when only an inch tall but may grow to 3" the blossoms always larger than the plants. Of the very easiest culture liking a sunny window. From Oklahoma. Winter hardy. Large 2" 50c. Smaller. 35c

ECHINOCEREUS

The flowers of most Echinocerei are large and very bright in shades of pink, red, purple and yellow. Some are winter hardy and will stand 15° of frost. Plants are solitary or clustered with stems 4" to 8" long. Vigorous, easily grown plants liking a good loam, moderate to generous watering in summer. Cactus Food is helpful to bring the best in flowering.

Echinocereus amoenus. A small, solitary, thick rooted species with brilliant pink blossoms. Rare. 75c

E. chloranthus. Colorful red or yellow spines. 50c

E. cinerascens. Photo page 33
E. delaetii. Old Woman. Long white hair. Large pink flowers. 90c
E. fitchii. FRILLED LACE CACTUS. A hardy Oklahoma species with pink or cream spines. Small flowering 35c. Large flowering. 50c
E. maritimus. Very clustered. Yellow flowers. 50c
E. nocturniflorus. Pink night flowering. 50c
E. papillosum. Free flowering yellow. 50c
E. reichenbachii. Handsome pink. Hardy. 50c
E. pensilis. Pendant stems to 2". Flowers lively red. Rare tender species. \$1
E. subterraneus. Lovely peach pink blossoms. 50c

ECHINOMASTUS

Small conical plants 3"-6" in height, thick-spined. Culture as in Ferocactus.

Echinomastus durangensis. Large. \$1.25
E. intertextus. Large. \$1.25
E. macdowellii \$1
E. uncinatus or *Echinocactus uncinatus*. Large flowering. \$1

BISHOP'S CAP

A popular spineless cactus for every collection and very easy to grow. *Astrophytum myriostigma* flowers freely all summer. Sunny location, moderate watering. Large 2-2 $\frac{1}{2}$ " 3 years \$1.25. Small 35c. Nice plants.





NOTOCACTUS MAMMULOSUS

This favorite has handsome, bright yellow blossoms. Surprisingly floriferous and easily grown. Native of Uruguay. Likes a good porous loam, moderate to generous watering and flowers best in a sunny location. Stands considerable cold. It will repay you for your trouble. Large 5 years old flowering, in bud in early spring \$1. Small 35c. Larger..... 50c

ECHINOCACTUS

Large growing Barrel Cacti from Mexico. Slow growing globes becoming tall-cylindric in age. Heavily spined, strongly ribbed. In youth they bear nipples which merge into ribs. Colorful. Porous soil, watering when dry. A sunny or light position.

Echinocactus grandis. A huge species..... 75c
E. grusonii. Golden Barrel. 2"-2 1/2"..... \$1
E. horizontalinus. Eagle Claws..... 50c
E. ingens. A giant species to 6'. At first powder blue in color. A fine plant. 2 1/2"-3" tall. 75c. Small 1"..... 50c
E. palmeri. Huge species..... 50c

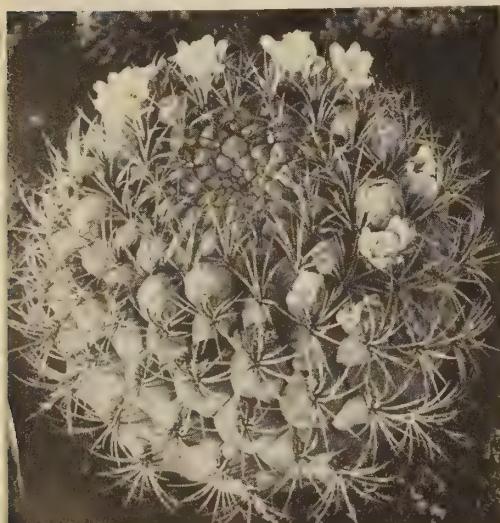
FEROCACTUS

Splendid Barrel Cacti often reaching large size. Culture as for Echinocactus.

Ferocactus acanthodes. Photo page 30.
F. coloratus. From Baja California..... 50c
F. diguetii. Very rare. The largest species. 3"-4" each..... \$3.50
F. flavovirens. Cluster forming..... 75c
F. gracilis. Tall slender..... 50c
F. herrerae. Pretty new species..... 50c
F. horridus. Small..... 50c
F. latispinus. Photo page 31..... 50c
F. peninsulae. Baja California 3"-4"..... \$2
F. robustus. Huge clusters. Small..... 40c

GIANT CHIN CACTUS

The largest of the Chin Cacti. *Gymnocalycium saglionis* may reach 15" in diameter. The chins or tubercles are large and prominent crowned with recurved black spines. The flowers are very short-tubed, soft pink in color. A handsome plant easily grown making a fine show specimen. Small 50c. 2"-3" 4 years..... \$1



Ferocactus tortulosinus. Colorful yellow and red..... 50c
F. viridescens. California species..... 75c
F. viscainensis. Baja California..... 50c
F. visnaga. Toothpick Barrel..... 50c
F. wislizeni. Candy Barrel..... 50c

GYMNOCACTUS

Small, nippled cacti with pretty pink or white blossoms. Seldom seen in collections. Well worth the collectors attention. Culture as for Notocactus.

Gymnocalycium gildsdorffianum. Pretty 1" to 2" plant with woolly top. Flowers white..... 75c
G. saueri. Small species. Quite rare..... \$1
G. saussieri. Handsome wine-red blossoms. Plant to 6". Imports..... \$1.25
G. subterraneus. A very tiny plant with tuberous roots joined to the plant by a thin stem. Flowers white. Very rare..... \$2

ISLAYA

Pretty Peruvian cacti 2"-4" tall, with woolly crown and red or yellow blossoms. Seed pods bright pink 1 1/2" to 2" long like air-filled bladders. Culture as for Notocactus.

Islaya minor. Very rare..... \$1

LEUCHTENBERGIA

Unique Agave-like plants with very long nipples tipped with papery spines. Flowers large, fragrant, yellow. Photo page 30.



PERMANENT WAVE CACTUS

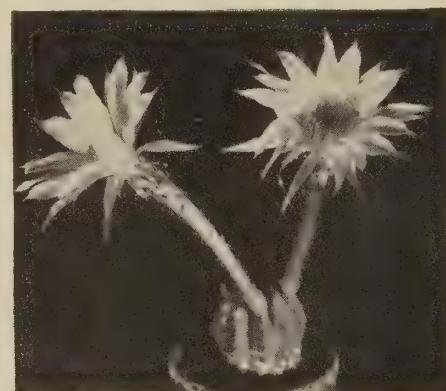
This fine group, *Stenocactus*, has many species with narrow, waved ribs sometimes as many as 100. Flowers are pink, white or striped with purple. Grow as easily as Pincushions. Nice, wavy ribbed, 2 year old plants.....

50c

MATUCANA

A beautiful group of globular Peruvian cacti found at higher elevations. Flowers tubular, brilliant red. Spines fine, glossy, grey-white. Culture as Notocactus.

Matucana violaciflora. A handsome new species from 14,000' with violet tinged red blossoms. Spines white or golden. Fine 1 1/2" plants..... 1.50



ROSE EASTER LILY CACTUS

Echinopsis grandiflora is one of the most beautiful and gracefully flowered. The 8" blossoms are of deepest pink each petal darker striped. A very handsome plant. Vigorous rooted, strong growing with very tiny, blunt spines. In summer feed well. Small 50c. 2"-2 1/2".....

\$1



PINK BALL CACTUS

The only Notocactus with pink blossoms. A truly lovely plant which blossoms for everyone. Flowers 1 1/2" in diameter bright pink with a yellow throat the petals like satin. Charming. It likes a good rich, well drained soil and a sunny location, moderate to generous watering. *Notocactus rutilans* 3 year blooming size.....

50c



SAND DOLLAR

Astrophytum asterias

Entirely spineless, freely bearing 2" yellow blossoms with red throat. Likes a very sandy soil, watering lightly only when dry. Sunny location. Very scarce. Large 2 1/2"-3" each \$1.25. Flowering 1 1/2" to 2".....

90c

MILA

A small genus with pretty yellow blossoms. Plants clustered with finger-like stems. There are a number of species in central Peru several of them new. Culture is easy. They like a porous soil light position watering only when dry.

Mila alboareolata. Vigorous small species. \$1
Mila caespitosa. Small clustering species. Found in hills near Lima..... \$1



PELECYPHORA ASELLIFORMIS

Extremely rare plants related to *Mammillaria*. Have large bright purple-pink apical blossoms. Sunny window and very sandy soil or sand and leafmold. Mature flowering imports.....

\$1.25

Pelecyphora valdeziana. A rare species, white spined and smaller than the above. Mature imports.....

\$1.50



PARAMOUNT HYBRIDS

THESE bright blossoming cacti flower much more easily for the beginner than some of the well known old species. They are very strong rooted plants as many hybrids are. They gain "hybrid vigor" in the same way as the new kinds of hybrid corn which have almost doubled crops. Some may grow to 12" in height and produce 12 to 25 flowers at a time. Various Echinopsis have been crossed with several species of Lobivias giving great variety in color and flower shape. The colors range from pink through various shades of shrimp and salmon to brilliant red, tangerine, strawberry pink and golden yellow. The Monarch group have large 6" to 8" blossoms in peach, salmon and red. The dwarf Echinopsis have produced some charming pinks and reds of smaller size.

CULTURE: They do best in a rather rich loam soil with moderate to generous waterings particularly in summer when growing. Flower best in full sun. They will stand considerable cold probably over 15° of frost.

Orange Paramount. A very vigorous plant flowering when small. Give it generous culture and as much sun as possible. Lovely orange yellow flowers. Pretty plant almost spineless. Small \$1. Flowering size 2-3".....\$1.25

Red Paramount. Vigorous free flowering variety. Blossoms varying at different seasons from orange to deep red. Charming.....\$1.25

Tangerine. Brilliant tangerine, an eye catching color. Flowers 5" to 6". Plant strong with dark spines. Very lovely. Stock limited. \$2.50

Orange Glory. Illustrated on front cover. Brilliant glowing orange. Flowers short tubed, 2 1/2" in diameter. Stock limited.....\$2.50

Fluffy Ruffles. Large, ruffled flowers, taupe pink flushed glowing orange. Free flowering, fine color. Each.....\$1.50

Salmon Queen. Rich salmon pink in color the plant and flower like Echinopsis. Vigorous grower. Flowers 5".....\$1

Sunset. Red with violet overlay. Pale yellow central stripe. Large broad petalled flower with long hairy tube. Vigorous plant.....\$1.50

PARAMOUNT ASSORTMENT COLLECTION E 16

3 unlabelled Paramount Hybrid seedlings of good quality that flowered in 1956. Choice colors assorted. Strong plants, only.....\$2



GIANT EASTER LILY

Echinopsis ritteri bears magnificent 8" snow-white blossoms several times during spring and early summer. Plant may reach 8" or more in diameter and 12" tall. A vigorous grower liking a rich soil. Flowers best in full sun. Small plants 50c. 2 1/2"-3". Flowering size each.....\$1.25



ANGEL TRUMPETS *Echinopsis spiniflora*

The plant is a lively apple-green with sharp ribs and brown spines. The flowers are white opening at night and remaining open until late morning. Several flowers open at each flowering 4"-5" long followed by pale red fruits. Very porous soil watering when dry. Sunny situation. Nice.....

50c



FLAME CACTUS

Pyrrhocactus tuberosus has dark flame red flowers in late spring. It is a very spiny plant with low ribs the curved spines intricately interlaced. It likes a very sunny location, porous soil and moderate watering. It appreciates cactus food in summer. Nice.....

50c



PEACH MONARCH

One of the finest of the new Echinopsis x Lobivia hybrids. The blossoms are very large up to 8" and freely produced. The plant flowered from May to October producing almost 50 blossoms. A beautiful glowing peach pink in color. Entrancing. Give generous treatment. Limited stock. Small.....

\$2.50



RED PARAMOUNT

Blossoms vary in intensity of coloring at different seasons from orange to bright red. A vigorous, free flowering variety. The plant is dark green with short spines on the ribs. Flowers during late spring and summer. Fine variety. Plants.....

\$1.25

CRIMSON PARODIA *Parodia sanguiniflora*

Scintillating carmine or ruby-red blossoms in spring and early summer. A most lovely flower. Blossoms easily in sun or part shade even when small. Fine for the beginner. Give them a rich open soil and moderate watering. 2 years.....

50c





ORANGE PARAMOUNT

Extremely free flowering variety with lovely orange yellow blossoms. A pretty, deep green plant almost spineless. Flowers well even when young. Give it a rich loam soil repotting as necessary, watering generously during the summer. Likes full sun. Small \$1. Flowering 2"-3".....

\$1.25



WALLFLOWER CROWN

A charming plant *Rebutia pseudodenudata* has dark red flowers in the spring. Easy to grow and soon branch into clusters. A light window or full sun. Moderate watering. Small 35c. Nice.....

50c



THE CRESTED HEDGE HOG

Echinopsis multiplex cristata

Crested cacti are the beauties and curiosities of the plant world. As you may see they do not look at all like ordinary cacti but assume a curious ruffled growth bending and curving into beautiful fluted piles. Same care as Pink Easter Lily. This is a rare plant I have not offered for 20 years. Nice bright crests on their own roots. Special.....

\$1.25

GYMNOCALYCUM

CHIN CACTUS

The Chin Cacti are particularly good for the beginner as they flower freely and require no experienced care. Many bloom over the entire spring and summer. They like a rich but porous soil and moderate waterings, doing well in sun or part shade.

GYMNOCALYCUM ANDRAEA

Nice lemon yellow flowers. Plant with few spines. Large.....

75c

G. anisitsii. White flowers. Small.....

50c

G. baldianum. A very free flowering species pictured on page 31. The flowers are of various shades of red varying from pink to scarlet and crimson. This lovely flowered cactus has harmless spines and blossoms all spring and summer. Give it a rich porous soil. A real "must" for the beginner. Large \$1. Nice flowering.....

50c

G. bruchii. Photo 30.

G. bodenbenderianum. White flowers flushed pink. Small 50c 2 1/2" 5 years.....

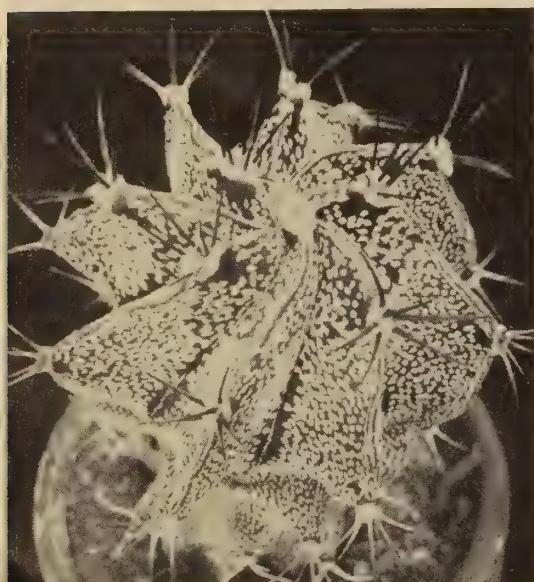
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G. damsii. Photo 28.

STAR CACTUS

Every collection should have the handsome *Astrophytum ornatum*. An old favorite of easy culture. It is beautifully dotted with a myriad snowflakes. Even the tiniest plants are perfect miniatures of the largest ones. Has large, lemon yellow flowers. Grows freely in a sunny location or with some shade. 4 years old \$1. Small plants 35c. Nice 2 year old.....

50c



NOTOCACTUS PAMEANUS

Bright golden yellow blossoms in late spring. Grows nicely in sunny locations. Give generous treatment. 6 years \$1.25.

35c

Gymnocalycium mostii. Large species. Hand-

50c

some flowers. Small 50c. 2".....

G. multiflorum. Fine, large white flowered

50c

plant. 2 1/2" 4 years \$1. Small.....

G. multiflorum albispinum. Spines white.

75c

G. occultum. Handsome coppery green plant

50c

with pink flushed flowers. Large 6 year flow-

ering specimens.....

1.25

G. ourselfianum. Large white or pink blos-

50c

soms. 2" 75c. 1"

G. quehlianum. Lovely pink flushed flowers.

50c

Each.....

G. saglionis. GIANT CHIN. Page 26.

G. schickendantzii. WHITE CHIN. Page 29.

LOBIVIA

For the beginner these are a "must have" group. The flowers are beautiful in lovely shades of pink, red and yellow. They bloom incredibly freely when their simple wants are met. They like a sunny location and a rich porous soil. Native to the high mountains of South America they stand considerable cold and should be wintered in a cool place such as a basement near a window, or frost free room.

Lobivia allegriana. Red flowered. Each....

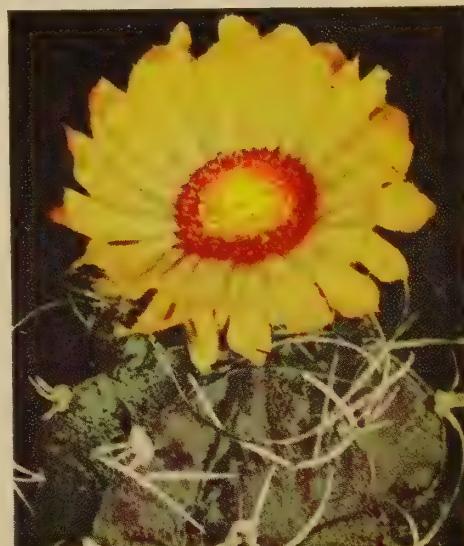
75c

L. astranthera. Handsome flowers.....

50c

L. aurea. Color plate page 36.

(Continued on page 29)





DAM'S CHIN CACTUS

Everyone can flower *Gymnocalycium damsii*. Flowers when still quite small. Blossoms pink-white $1\frac{1}{2}$ inches across and borne in succession during spring and early summer. Charming. Sun or part shade good loam soil moderate to generous watering. Specimens \$1. Small 35c. Flowering 50c



LOBIVIA LATERITIA

Large red blossoms borne in spring. Plants cespitose with low ribs. Flowers very freely. An easily grown variety suitable for the beginner. Rich porous loam, moderate to generous watering, sunny location. Clusters.....

90c



STRAWBERRY CACTUS

A free flowering Texas plant seldom without flowers in summer. *Hamatocactus setispinus* grows so easily it is a great favorite of all. Sun or part shade. Should stand low temperatures. Small 35c. Flowering size.....

50c



NEOPOTERIA

A group of small, barrel-like, Chilean Cacti some with large tuberous roots. A pretty flowering genus often flowering in winter or early spring. The tuberous rooted ones grow much faster when grafted. Very porous soil, moderate watering, sunny, airy position.

Neopoteria acutissima. Nice pink flowers. 50c

N. atrispinosa. Slender black spines. \$1
N. atrispina x napina. Nice flowering variety. Each different. 75c
N. castanoides. 2"-2 $\frac{1}{2}$ "..... \$1
N. fusca. Coppery brown plant. 2"..... 75c
N. heteracantha. Small..... 75c
N. mammillarioides. Nice pink blossoms. 1" 50c. 2"-3"..... \$1
N. nigricans. Black Cactus. Stem almost black. Rare. Small plants. 75c
N. senilis. CHILEAN OLD LADY. Beautiful plant with splendid pink blossoms. White, curling, hair-like spines cover plant completely. Rare. Hairy 1"..... \$1

ORYA

Oroya lutea. Handsome new species of this lovely genus. A very distinct plant. Does splendidly grafted. Small plants. \$1.50



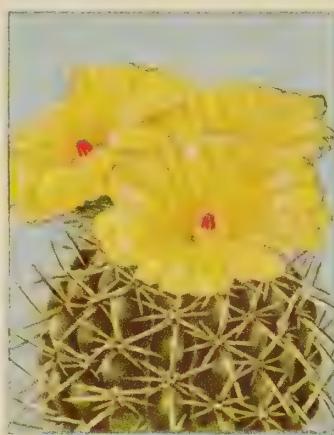
FRILLED LACE CACTUS

These plants bear gaudy, bright rose-pink blossoms 2"-2 $\frac{1}{2}$ " across. They flower freely several times during the summer. Plants conical 2"-3" tall. In the wilds they take below zero weather. *Echinocereus fitchii* is charming. Each..... 35c



WHITE CHIN CACTUS

Should be in every collection. A real spiny plant with black, curved spines. Charming white blossoms in June. *Gymnocalycium schickendantzii* is easily grown, sandy loam, moderate watering, sun. Mature blooming specimens 5 years \$2. Smaller blooming \$1. Nice plants..... 50c



LEMON BALL

Our larger sizes can be shipped in bud in early spring. *Notocactus submammulosus* is a must for the beginner. Stands lots of cold. Rich porous soil, moderate waterings. Mature blooming 5 year old \$1.50. 3 year \$1. Small 35c. 2 year..... 50c



GLORY OF TEXAS

Gorgeous crepe-like brilliant pink blossom 2"-2 $\frac{1}{2}$ " across. Blooms from spring till fall. Our plants are all mature flowering specimens with dormant flower buds. *Thelocactus bicolor* likes light soil or sand with leafmold, moderate watering. Specimens 75c. Nice 2" flowering..... 50c

QUARTET COLLECTION E17. Four Fine Flowering Cacti.....

\$1.45



ORANGE COB CACTUS

A handsome flowered plant *Lobivia famatimensis* is quite variable in flower color ranging from yellow to crimson. The large blossoms have petals like crepe-de-chine. It enjoys a rich, porous soil and generous treatment. Give it a sunny, airy location. The roots are large so in winter give it a good rest to secure the most bloom. **Large 4 years old blooming** **50c** specimens \$1. 2 year.



LOBIVIA LARABEI

A small, clustering new plant bearing very bright scarlet flowers with white throat. It offsets freely and each may be detached to form a new plant. Of easy culture. Sun or part shade. **35c**

FIRE CROWN CACTUS

This brilliant red flowered Crown Cactus, *Rebutia senilis*, will open your eyes to the beauty of cactus flowers when you see it in bloom. Free in flowering the small plants are wreathed in dainty fire-red blossoms in late spring. An easy to grow plant with white, harmless spines. Rich porous soil, moderate watering, sunny location. Small 35c. 2 year old. **50c**



REBUTIA CROWN CACTI

Excellent cacti for the beginner as they are of the easiest culture and flower under adverse conditions. The blossoms are bright and they are of all colors and shapes. One large plant I had had 500 blossoms! Give them a rich porous soil, moderate to generous waterings. They like a sunny or partially shady location and a good, cool winter rest.

<i>R. aureiflora.</i> Golden. Small.....	90c
<i>R. chrysacantha.</i> Lovely orange red.....	75c
<i>R. costata.</i> New. Red flowered.....	75c
<i>R. dasyphrissa.</i> Long white spines. Orange red. Clusters \$1. Small.....	50c
<i>R. elegans.</i> Handsome large plant. Small 50c. 1 1/2"-2"	75c
<i>R. fiebrigii.</i> Vigorous. Deep red.....	75c
<i>R. grandiflora.</i> Color plate page 25.	
<i>R. kraenziana.</i> Dark red. Very pretty.....	75c
<i>R. kupperiana.</i> Vivid red.....	75c
<i>R. Lemon Queen.</i> Lemon yellow flowers. Form of <i>chrysacantha</i>	\$1
<i>R. nigricans.</i> Cluster forming.....	75c
<i>R. orurensis.</i> Salmon red.....	75c
<i>R. pseudodeminita.</i> Color plate 28.	
<i>R. pseudodeminita.</i> var. <i>schumanniana</i> . Red.....	75c
<i>R. pseudominuscula.</i> Deepest red.....	50c
<i>R. ritteri.</i> Cluster forming.....	75c
<i>R. senilis iseliana</i>	75c
<i>R. senilis kesselringiana</i>	75c
<i>R. steinmannii.</i> Deep red.....	50c
<i>R. violaciflora.</i> Color plate front cover.	



LOBIVIA PAUCARTAMBENSIS

A very bright crimson flowered new species. Flowers large, and produced from spring to November. Plants small up to 1 1/2" in diameter forming clusters. The offsets freely produced rooting while still attached to the mother. It flowered longer with me than any other species even in quite cold weather. Give it generous treatment and a rich porous soil. I found it on a barren hillside in grass at 12,000 feet elevation near Paucartambo, Peru. Each. **50c**

CACTUS SUPPLIES

Various items useful to the fancier, which we ourselves use, are described on page 17 and 18. Books on pages 19-20.



AGAVE CACTUS

Leuchtenbergia principis has yellow papery ribands topping the long tubercles from which the very large, fragrant yellow flowers are produced. The roots are thickened so use a very porous soil. Easy to grow. 4 years old, \$1. Smaller. **50c**

MELOCACTUS

The Turk's Caps are one of the most striking of all cacti. After the plant reaches maturity it bears a red, fez-like flowering cephalium on top which grows longer yearly. It takes several years before the cephalium appears. They like a rich but very porous soil, a warm sunny position, moderate watering.

Melocactus maxonii. A fine species from Guatemala.....

M. townsendianus. From Peru.....



SETIECHINOPSIS MIRABILIS

The "Flor de Oracion" of Argentina. An interesting small plant 2" to 3" tall and the thickness of your finger. Almost black in color. The very tall, slender, white flowers open in the evening. Blossoms freely. **Flowering 40c** size each.



CALIFORNIA BARREL

Ferocactus acanthodes is often called the Fire Barrel as some plants have bright red spines. The spines vary greatly in color from pale straw-yellow to red or more commonly mixed red and yellow. They are found in the hottest of our Southern California deserts most often perched among the rocks on steep slopes. Very sandy soil, moderate watering, full sun. Nice 1 1/2" to 2" plants. **50c**

REBUTIA ASSORTMENT COLLECTION E 18

5 Assorted Rebutias of easy culture, a nice selection for the beginner. Small plants some of which should flower this spring. Plant them in a rich but porous soil and give generous treatment. Partly sunny location. **Unlabelled.....** **\$2**



DAINTY BESS

This pretty cactus is the result of crosses between one of the smaller Echinopsis and a Lobivia. The flowers are a light crimson red and freely borne. The plant is a flattened globe and becomes prolific at the base. These smaller types are quite attractive. They appreciate a rich, open soil and during the summer should be kept in growth by watering whenever dry. Flowering size plants each.

\$1.50

NOTOCACTUS

BALL CACTI

Some of the most fascinating and lovely cacti are in this group. The beginner is at home with them for they will grow under varied conditions and flower quite freely. They make fine, long-lived specimen plants. None grow too large for the small collection. Give them a rich, porous soil and during the spring and summer sufficient water and cactus food to keep them plump and growing. They bloom in late spring.

Notocactus apricus. SUN CUPS. Large yellow blossoms. Large 5 years old. **\$1.50.** Small 35c and 50c
N. caespitosus. Rare species. Flowering size 50c
N. concinnus. Rare species. Flowering 50c
N. floricomus. Rare species. Flowering 50c
N. graessneri. YELLOW BALL. Handsome clear yellow spines. Small 35c-50c. Larger 75c
N. grossei. Large species. Small 50c. Larger 75c
N. hasselbergii stellatus. New 1
N. leninghausii. Color plate page 25 1
N. linckii. Yellow flowers 50c
N. muricatus. Scarce. Large 1.25 75c
N. ottonis. INDIAN HEAD. Color plate 36. 36.
N. ottonis longispinus. 75c
N. rutilans. PINK BALL. Pink flowers 50c
N. schumannianus. GIANT BALL. Large 2"-3" 1. Small 50c
N. scopula. Silver Ball. Color plate 24. 1



FISHHOOK BARREL CACTUS

Well known to collectors Ferocactus latispinus is one of the best varieties for a specimen. The central spine is broad, strongly hooked and generally red in color. Our plants are fully ribbed and have an abundant root system. They are 3" in diameter and several years old.

Fine specimens each. 2

MALACOCARPUS

An interesting South American group with woolly crown, sharp low ribs, yellow widely open flowers and soft pink fruits. Easily grown, long lived.

Malacocarpus erinaceus. A fine species. Flowering 5 years 1
M. pauciareolatus. Large species. Nice 50c and 75c
M. sellowii (tephracanthus). Large species. 50c and 1
M. vorwerkianus. Rare Columbian species. 50c

PYRRHOCACTUS

Chilean plants with dark red flowers. Plants heavily spined. Require same care as Noto- cactus.

Pyrrhocactus tuberisulcatus (Horridocactus horridus). 50c
Pyrrhocactus umadeave 50c

SOEHRENSIA

Large, globular Argentine plants with handsome red or orange blossoms. The blossoms open widely and are very brilliant. The plants bear many ribs. Very easily grown they bloom very freely after once reaching flowering size.

Soehrensia bruchii. Very large plant. Flowers large, red. Quick growing. Each 50c
S. formosa. Provisional name. A clustering, golden spined plant with brilliant burnt-orange, large blossoms 1
S. korethroides. Handsome ruby red blossoms. Plant large, quick growing. Splendid 2" each 75c



RAINBOW CHIN CACTUS

The colorful Gymnocalycium baldianum (G. venturianum) varies from pale pink through various shades of red to brilliant ruby red. They are quite free in flower and are found in bloom all spring and early summer. Small 35c. 4 years old \$1. Nice flowering 50c

PARODIA

Elegant, Bright flowered cacti from Argentina and Bolivia perfectly suited to the small collection. Pretty as plants or in flower. Easily grown in a sunny or part sunny window. Rich, porous soil, moderate to generous watering.

Parodia aureispina, TOM THUMB. One of the easiest grown and flowered of cacti. Color photo page 24.

P. catamaricensis. A rare, distinct species for the collector. Yellow flowered. 1"-1 1/2" plants 75c

P. chrysacanthion. Handsome golden spined species. The glossy spines are straight, not hooked. Fine 5 years old specimens \$1.50. Small 1" 50c

P. mutabilis. Large orange yellow blossoms. Handsome 50c

P. sanguiniflora. Ruby red blossoms. Splendid 50c

THELOCACTUS

Fine Mexican cacti. Culture as for Echinocactus.

Thelocactus hueckii. Mature import 1.25
T. ehrenbergii 75c
T. heterochromus. Import 1.50
T. hexaedrophorus. Import 1.50
T. subporrectus 75c
T. tulensis. Import 1.50
T. tricolor. Large 1.00



ECHINOPSIS ANCISTROPHORA

A very pretty and exceptionally free flowering Easter Lily Cactus. Blossoms long tubed and snowy white. Native to the mountains of Argentina. Give it a rich, open soil and a sunny location. The plants have weak spines and reach 3" in diameter. They flower when quite small and are a thrilling sight in the morning.

Small 35c. Nice 1 1/2"-2" 50c



From Washington

Mrs. Bendetto has been quite successful in flowering her cacti and succulents which we have sent her the past few years. This year her Empress Orchid Cactus flowered which thrilled her with its beauty. She has been much pleased with her plants.

PINK PEARL CHIN CACTUS

Pearl pink blossoms the petals deeper toward the base. Gymnocalycium leptoanthum bears flowers larger than the mother plants. A charming, free flowering species. 3 years 75c

35c





HEDGE HOG CEREUS

A particularly beautiful flowered cactus from Texas. *Echinocactus pentalophus* has short, spiny, finger-like stems forming clusters. The 4" brilliantly colored blossoms are far larger and brighter than the illustration shows. Each 50c and.....

35c

NIGHT BLOOMING CERES

SELENICEREUS

Beautiful night blooming cacti which, bearing their huge blossoms, surprise the beginner. Like a rich, porous soil keeping well watered in summer. Best in a sunny position.

Selenicereus coniflorus. White and gold.....75c
S. donckelaerii. Stiff slender stems.....75c
S. hondurensis. White and gold.....75c
S. murrillii. Slender. Nice flowers.....75c
S. wercklei. Dwarf.....75c

ERIOCERUS

The Moon Cacti are a fine group of robust partly climbing cacti. They have strong vigorous root systems and should be shifted into larger pots as necessary using a rich loamy soil. Bear tremendous crops of large 5"-6" white blossoms. Like full sun to flower well.

Eriocactus bonplandii. Handsome with 6" snowy blossoms. Large 6"-8" plants from flowering specimens.....\$1

E. guelichii. Large 5" flowers.....75c
E. martinii. See photo page 34.
E. pomanensis. Fine vigorous species.....75c



At left:

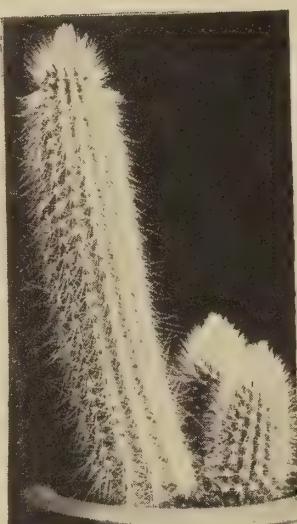
PEANUT CACTUS

An old favorite because it grows quickly under almost any conditions. Rapidly forms a many branched cluster. Flowers are very bright. The branches are easy to root in summer. Rich porous soil, generous watering. Flowers.....40c best in full sun.....



CEREUS MILESSIMUS

Fine tree cereus with snowy blossoms, bright red tasty fruits. A quick growing pot plant. Large specimens may be 10 feet tall and much branched. 6"-7" 60c. 35c. Nice small plants.....



SILVER TORCH

Cleistocactus strausii is a favorite. Nice silvery white, quick growing, fluted columns. Freely borne red flowers. Of the easiest culture. Rich porous soil, sun or part shade. Nice 3" 35c. Larger 5"-7" 50c



MOON CACTUS *Eriocactus*

These are very free growing cacti and flower abundantly the large snowy blossoms opening in the evening and remaining open in the morning. Likes a rich loamy soil a sunny location and moderate watering. Should be trained to a stake. Native to Argentina. 50c

CLEISTOCACTUS

Slender upright plants bearing tubular, scarlet blossoms often phenomenally freely. Of the simplest culture. Rich porous soil, generous watering, sunny location.

Cleistocactus baumannii. Scarlet Bugler. Page 35.

C. hyalacanthus. Stout snowy white columns. See page 3, in photo of exhibit. Small clusters \$1. Small plants 3"-5".....50c

C. luminosus. Brilliant blossoms. Stout plant.....75c

C. morawetzianus. Tree-like.....75c

C. strausii. Silver Torch. See below.

BORZICACTUS

A fine genus of Ecuadorian and Peruvian cacti with slender, bright red flowers and stout, branching stems. Rich porous soil, moderate watering, sunny location.

Borzicactus fieldianus. Very rare species. Nice.....\$1.50

B. sepium. Handsome red flowers.....\$1

B. tesselatus. New species.....\$1.50



BORZICACTELLA VIPERINA

An interesting new cactus with slender stems bearing charming red blossoms the petals rimmed with white. An unique plant of easy culture. In growth like Rattail Cactus.

\$1

Nice plants.

ARMATOCEREUS

A genus of large tree cacti from South America. Some produce extraordinarily long spines. Flowers white. Culture as Cereus.

Armatocereus armatus. Strictly branched.....\$1
A. chalaensis. Strictly branched.....\$1
A. matucanensis. Widely branched.....\$1
A. mocupensis. Huge species.....\$1
A. nazcaensis. Strictly branched.....\$1
A. solitarius. To 10 feet.....\$1

CEREUS

A NOBLE and greatly diversified group of cacti distributed over the warmer parts of North and South America. They may be finger-sized plants to great trees up to 64' tall weighing many tons; or they may be slender climbers opening their huge white chalices to the tropic moon. The tree-like forms as the Sahuaro give a distinctive atmosphere to western deserts. Mexico, Central



PINK EASTER LILY

A free flowering, quick growing cactus winter hardy if well protected by snow. *Echinopsis multiplex* bears 6" lovely Easter Lily-like pink trumpets. Will flower several times during late spring and summer. Remove offsets as they appear to keep flowering vigor. Sun or part shade, rich soil and generous watering. Flowering size 75c. Small 35c. Nice.....

50c

MONVILLEA

South American free flowering cacti with slender divaricate stems. Flowers of good size, white, long tubed. Ordinary culture.

Monvillea diffusa. Free flowering.....40c
M. exaltata. New species.....\$1
M. mocupensis. New.....\$1
M. pucuraensis. New.....\$1
M. species. Very free flowering.....75c
M. vargasiana. New.....\$1



MOON CACTUS *Eriocactus*

and Its Allies

and South America all have their characteristic kinds. The flowers are often large, mostly night flowering to attract the moths which pollinate them. In South America I have seen humming birds flitting from flower to flower in the grey light of early dawn and along the Amazon the parrots grow fat eating the green fruits.



PRINCESS OF THE NIGHT

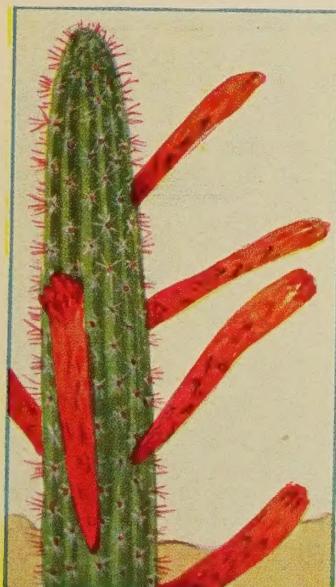
A glorious white and gold blossom 10" across. A fine night flowering cereus for the window garden. *Selenicereus pteranthus* can be readily flowered. Use a spongy, sandy loam soil or our Jungle Mix modified. Harden growth in later summer with sunshine and less water. Each \$1. Smaller.....

75c

HAAGEOCEREUS

This handsome Peruvian genus has clusters of upright or creeping stems and large white or sometimes red blossoms. The upright ones have golden or orange, fine spines and are beautiful specimens. Like a very porous soil and only moderate watering. Full sun.

<i>Haageocereus acanthus</i> .	6"-7"	1.25
<i>H. arenosa</i> .	Reddish spines.....	75c
<i>H. chosicensis</i> .	Red or gold.....	50c
<i>H. platinospinus</i> .	Arequipa.....	75c
<i>H. stellaspinus</i> .	Small clustering.....	50c
<i>H. tomasiriensis</i> .	Creeping.....	50c



SCARLET BUGLER

You will want this handsome flowered small cereus as it flowers all summer long. Brilliant scarlet tubular blossoms. *Cleistocactus baumannii* likes a good loam soil, moderate to generous waterings. Nice.....

50c

TRICHOCEREUS

A large flowered genus of South American, columnar cacti of easy culture, mostly of fast growth. Like a rich porous soil, moderate to generous watering, sunny situation.

TRICHOCEREUS AKERSII.	Handsome white, hairy plants. Flowers salmon pink. A beautiful new plant.....	75c
<i>T. bridgesii</i> .	Blue stems. 6" cuttings.....	75c
<i>T. cuzcoensis</i> .	Blue stems.....	75c
<i>T. fascicularis</i> .	Tall, spiny. Peru.....	75c
<i>T. gladiatus</i> .	Handsome clustered. Nice.....	50c
<i>T. huanucensis</i> .	Giant.....	50c
<i>T. infundibuliformis</i> .	15'. New.....	75c
<i>T. lamprochlorus</i> .	Clustered. Large flowered.....	\$1
<i>T. litoralis</i> .	Branched.....	75c
<i>T. lucernatus</i> .	New.....	1.50
<i>T. pasacana</i> .	Large, columnar.....	50c
<i>T. poco</i> .	Handsome red flowers.....	50c
<i>T. purpureopilosus</i> .	Creeping.....	50c
<i>T. santiaguensis</i> .	Handsome blossoms.....	50c



QUEEN OF THE NIGHT

An old favorite whose blossoms are so astoundingly large and ethereally beautiful your friends will be entranced when they see it. *Selenicereus macdonaldiae* is of the easiest culture. Most growers give it too much shade. To mature growth properly give it sun protected only, if at all, at noonday. It likes a porous or spongy soil. Put it outdoors in summer but keep well supplied with water. It is a climber. The stems should be bent around a pot trellis or stakes. Plants \$1. Smaller.....

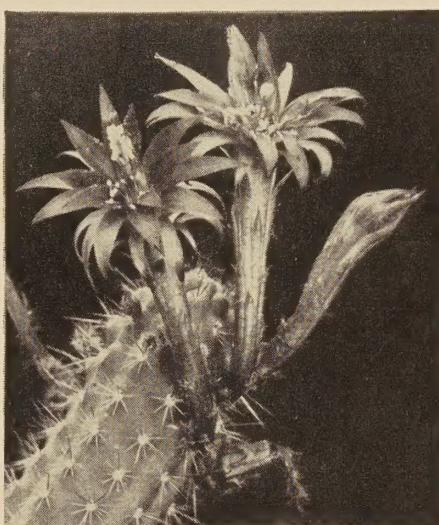
50c



RATTAIL CACTUS

Aporocactus flagelliformis is an old favorite. Beautiful large pink blossoms on pendent stems. Rich porous soil. Nice plants \$1.25 and.....

75c



ECHINOCEREUS CINERASCENS

Dazzling, wine-purple blossoms 3" across that last for a week. Clustering stems to 6" tall furnished with stiff white spines. A beautiful species of easy culture. Give them a rich loam soil and plenty of water in summer. Keep dry in winter allowing enough water to keep roots alive. Nice plants beginning to cluster.....

50c

LOPHOCEREUS

Lophocereus schottii is a tall columnar plant with pink blossoms. Each.....

40c

WHITE TORCH CACTUS

Beautiful, popular and exceedingly easy to grow. *Trichocereus spachianus* is a quick grower. Snowy blossoms 6" across. Branches freely from base forming nice colonies. Fine stock to graft on. Will stand 15' above. Small 2" 35c. Larger 4"-6".....

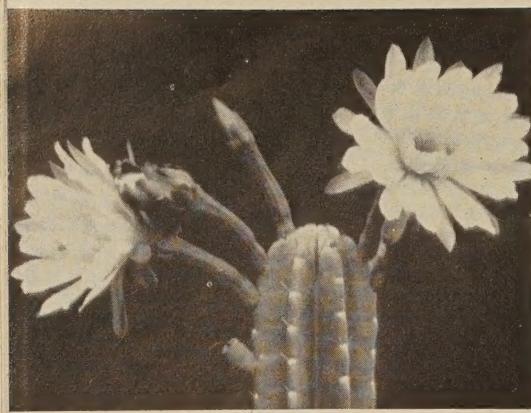
60c



CEPHALOCEREUS

Some are small others tall, many have white wool at flowering time. Stems of many are powder blue. Easily grown, popular plants.

Cephalocereus. senilis. OLD MAN CACTUS.	Photo page 35. 35c to.....	\$1
<i>C. arrabidae</i> .	Tall green species.....	75c
<i>C. sartorianus</i> .	Tall, much white wool.....	50c
<i>C. glaucochrous</i> .	Bright blue stems. Small growing species.....	75c
<i>C. mescalaensis</i> .	New species.....	75c
<i>C. nobilis</i> .	Small species.....	75c
<i>C. palmeri. WOOLY TORCH.</i>	Photo 35.	75c
<i>C. polylophus. Aztec Column.</i>	Thick columns with many low ribs. Red blossoms, 3".....	75c



PERUVIAN APPLE CACTUS

The small plants of these tree cerei are very pretty, the 4 to 7-angled green stems set with brown spine clusters. The bright red fruits are large, up to 11 ounces, perfectly spineless the snowy white pulp crisp and sweet to eat. Very popular in the semi-tropics as a fruit. Grow fast in good loam 6"-8" 75c. Nice 3 to 5 inches.

40c

CEREUS

Fruit bearing tree cacti with large white flowers opening at night. Some grow to enormous size of 50'. All are easily grown as pot plants in sun or part shade. Give them a rich soil and in summer plenty of water.

<i>Cereus dayanii</i> . Photo page 35.	
<i>C. grenadensis</i> . Rare. Nice 3" to 4"	50c
<i>C. hildmannianus</i> . Tall tree	40c
<i>C. horribilis</i> . Huge tree. Long spines	50c
<i>C. jugatiflorus</i> . Rare species	75c
<i>C. lepidotus</i> . Tall tree	50c
<i>C. llanensis</i> . Small tree	50c
<i>C. pernambucensis</i> . Sprawling	75c
<i>C. peruvianus reclinatus</i> . Handsome flowers red on the outside. Free flowering	35c
<i>C. vargasiana</i> . New	75c
<i>C. variabilis</i> . Small growing	75c

ARTHROCEREUS

Small cereus of clustering growth. White or pink blossoms. Like a porous soil and moderate waterings. Full sun or part shade.

<i>Arthrocereus microsphaericus</i> . Very dwarf, much jointed cereus with white fragrant flowers. Rare collectors item	\$1
<i>A. rondonioides</i> . Upright, yellow spined, slender columns. Flowers pink. A rare new species.	\$1

THRIXANTHOCEREUS

Handsome monotypic genus. Tall, slender, fluted columns to 10'. Bears a brushy white pseudocephalium in which the flowers appear. A fine and rare genus from the Amazon. Generous treatment.

Thrixanthocereus blossfeldiorum. 4"-6".

\$1.50

MOON CEREUS

Eriocereus martini is a free flowering, scandent climber whose charming blossoms are borne at night. Bright red fruits are very attractive. Give it rich soil and a large pot as it is a vigorous grower. If given plenty of sun they flower freely. 6" rooted cuttings 75c. Small 3"-4" 50c



CHAMAECEREUS

The Peanut Cactus belongs here. Small cerei very easily grown.

Chamaecereus sylvestrii. Peanut Cactus.

Page 32.

<i>C. Flame</i> . A hybrid of stronger growth with larger blossoms. Nice	50c
<i>C. Jumbo</i> . Hybrid of large size	75c
<i>C. giganteus</i> . Bears 3" wide throated red blossoms and evidently is not a Chamaecereus. Most interesting plant. Each	\$1

ESPOSTOA

White woolly Peruvian, branched Cerei. Handsome.

Espositoa chilensis. Pinkish color. 3"-4" \$1

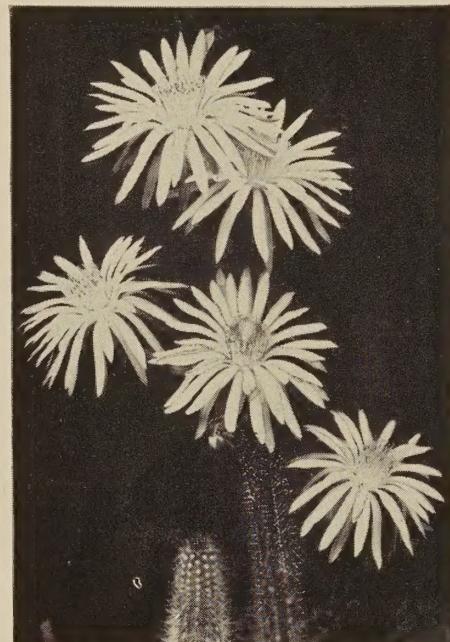
E. Canyon del Pato. Extremely white, 8"-12" \$3.50

E. huanucoensis. Yellow tinged. A stout much branched plant with white fruit. Large. \$1.50

E. lanata. PERUVIAN OLD MAN. Below.

E. maranonensis. Huge species to 25" \$1.50

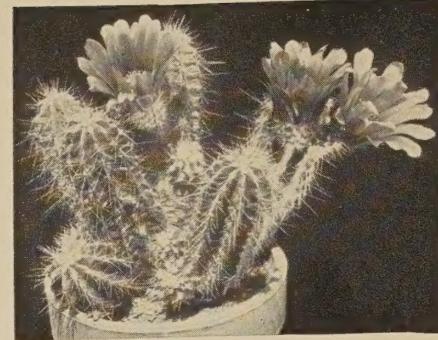
E. mocupensis. Tall, red spined branching above. Handsome new species. Scarlet fruit. 7"-8" \$1.50



FRAGRANT NIGHT FLOWERING CEREUS

An old favorite with very beautiful creamy white blossoms of large size. *Nyctocereus serpentinus* is deliciously fragrant scenting the whole garden. Stems columnar, fluted. A handsome plant. Requires a rich soil and full sun. Give generous treatment repotting as needed. Each

50c



PURPLE HEDGE HOG CEREUS

Echinocactus sarrisiphorus has long white spines and 3" brilliant purple blossoms. Striking when in bloom. Stands considerable cold. Nice plants.

50c

LEMAIREOCEREUS

Tall branched Mexican cerei relatively fast growers of simple culture. *Lemaireocereus chichipe*. Blue stemmed.

L. dumortieri. Fat green columns

35c

L. stellatus. Pink flowers

35c

L. thurberi. ARIZONA ORGAN PIPE. Shining green with red and black spines. 4"-6".

75c

GIANT CEREI

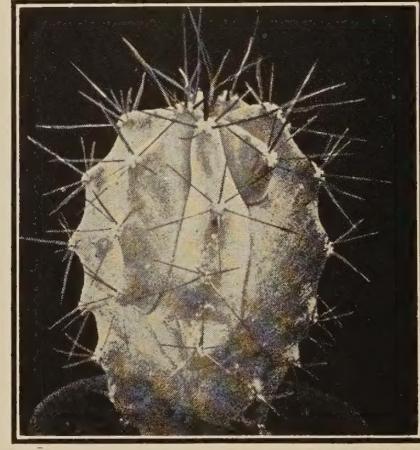
Pachycereus has many gigantic species. Easily grown.

Pachycereus pringlei. GIANT MEXICAN

CEREUS. To 63' tall. Small 40c. 5" to 7" 75c

P. pecten-aboriginum. NATIVE COMB. Huge

species. 5" to 7" 50c



POWDER BLUE CEREUS

Lemaireocereus pruinosis is most attractive as a small plant with its powder blue, ribbed stems and black spines.

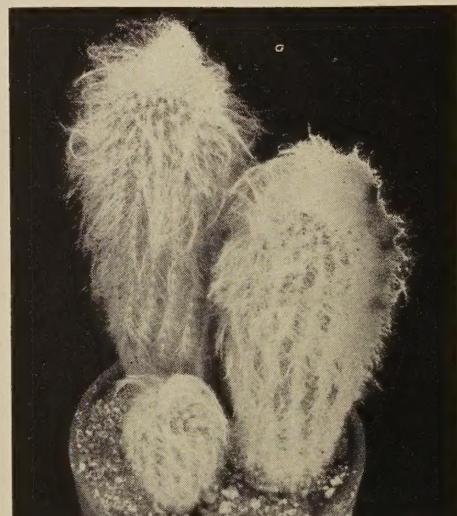
35c



OLD MAN OF THE MOUNTAIN

Oreocereus trollii is a splendid specimen plant. Thick, short columns densely clothed in white woolly hair the stout chestnut spines showing through. From high in the Andes of Bolivia. An easy to grow plant soon making a specimen. Rich porous soil sunny situation.

Small 1 1/2" 50c. Large 3"-4" 90c



PERUVIAN OLD MAN

Espositoa lanata is clothed in silky white floss. Of simple culture and quick in growth. 6" plants \$1. Smaller 2"-3" 40c

BOLIVICEREUS

A pretty new genus from Bolivia with curved-tubed, red blossoms. Flowers freely when of small size. Rich porous loam and an abundance of water in summer. Sunny position. *Bolivicereus samaipatanus*. Short columnar, branching from the base. Stems an inch in diameter, green with yellow spines. Very pretty, freely borne red blossoms. An easy to grow plant. Each.....\$1

MORAWETZIA

A curious monotypic genus from central Peru. The plants form small clusters of ascending stems. The areoles have wispy white hairs among the spines. When the stems are about a foot tall they produce a cephalium of white and brown bristles and hairs among which the lovely red pink, tubular blossoms are produced. The flowers are charming; later followed by large white fruits. Of the easiest culture liking a rich soil, full sun and moderate water during summer.

Morawetzia doelziana. Small 3"-4".....\$1

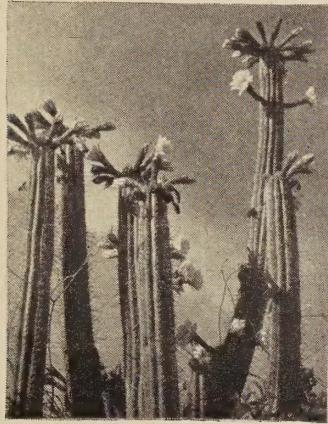
PYGMAECEREUS

Tiny, white flowered, night blooming cereus native to Peru.

Pygmaecereus akersii. Clustering.....\$1.00

P. napinus. New species.....\$1.50

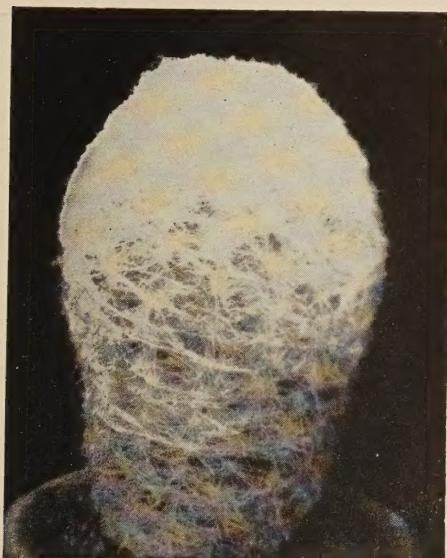
P. nycticallus. New species.....\$1.25



PERUVIAN TORCH CACTUS

Trichocereus peruvianus has tall, columnar, bluish stems and large white flowers. The plants branch from near the base. In the wilds they are sometimes pendent from cliff faces. In the morning the blossoms are lovely against the sky. I took this photo in February in Peru. 1 1/2" to 2" each.....

40c



SNOWBALL CACTUS

A choice Peruvian cactus, *Pseudoeuphorbia melanostele*, grows in the dry valleys of the Andes. Snowy white and covered with a soft, cotton-like fleece it makes a superb specimen plant. Very slow growing. May reach 6' in height though generally less, branching at base. At flowering a copious rust red pseudocephalium is produced. Large 9 year old 6" perfect specimens \$1.50. Smaller 5 years.....

\$1

HYLOCEREUS

Climbing Night Blooming Cerei with triangular stems. Flowers enormous up to 12" or more in diameter. They are best grown in a very porous compost as they are epiphytic in the wilds, clinging to trees or rocks. Very porous composts are not as a rule very rich. Rotted cow manure may be added or you may depend on a liquid chemical fertilizer or our Cactus Food. Fertilizers should be used at about half strength and applied every two or three weeks during the hot growing season. Do not apply during late fall and winter resting or maturing period. To produce flowers stems must have an entire year to mature and store food to have energy enough to produce the large blossoms. This also applies to *Selenicereus* and *Orchid Cacti*.

Hylocereus undatus.....\$1

H. peruvianus.....\$1

H. ocamponis.....\$1

WEBEROCEREUS

Slender climbing cerei, small pink flowers.

Weberocereus bolleyi. Spineless.....50c

W. trichotus. Pretty new species.....75c

WERCKLEOCEREUS

Slender, triangular-stemmed, climbing cerei.

Werckleocereus glaber. Large white flowers.....

75c

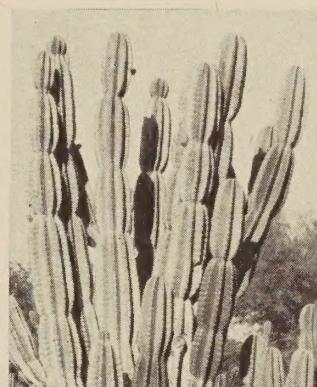
W. tonduzii.....\$1



DAYAM'S TREE CACTUS

One of the best fruiting and flowering kinds. Bears big tomato-like, half pound fruits which are quite fragrant and delicious, the pulp crystalline white and sweet. Tree-like in habit making a good pot plant. 6"-7" 60c. *Cereus dayamii*. Nice.....

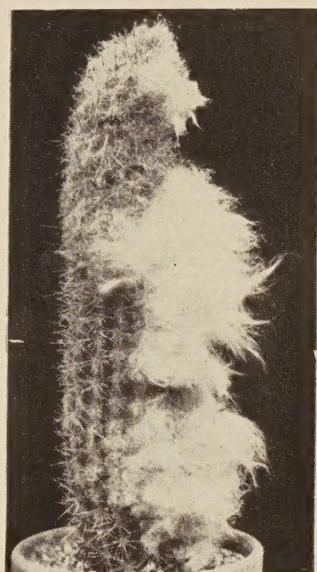
40c



FLOWERING TREE CACTUS

A free flowering specimen plant and pretty large or small. Everyone enjoys *Cereus gonianthus* because of its larger, lily-like flowers and handsome, tomato-like fruits, sweet and edible with crystalline pulp. Large plants may be stored during winter in a frost-free basement. 6"-7" 60c. Smaller.....

40c



WOOLLY TORCH

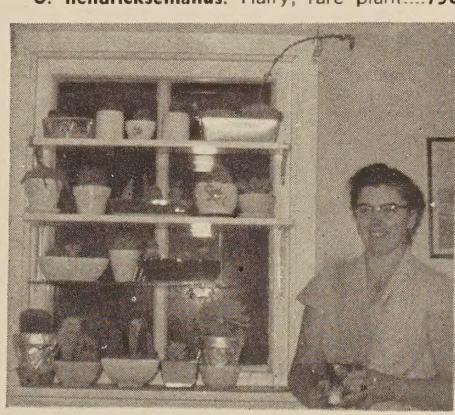
Cephalocereus palmeri. Tree-like to 15' the columnar stems blue at flowering time producing a white beard-like silky pseudocephalium. 5"-8" 60c. Smaller.....

40c

OLD MAN CACTUS

The long snowy hair of the venerable *Cephalocereus senilis* makes it much sought after. No collection should be without it. We have some very fine plants this year particularly in the larger sizes. 4"-5" five years \$1. 3"-4" 75c. Small 35c. Nice 2"-2 1/2".....

50c



From Medicine Hat

A part of Mrs. Ed Schwabe's cactus collection. The rest of her plants she puts out in the garden during summer. She gets many flowers on her plants each year. No matter where you are cactus can do well.

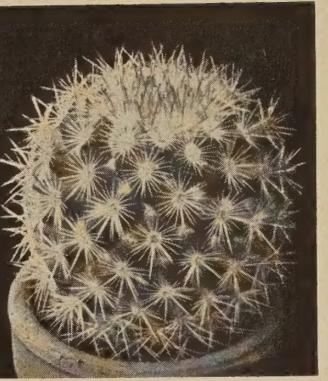


**MAMILLARIA PERBELLA LANATA**

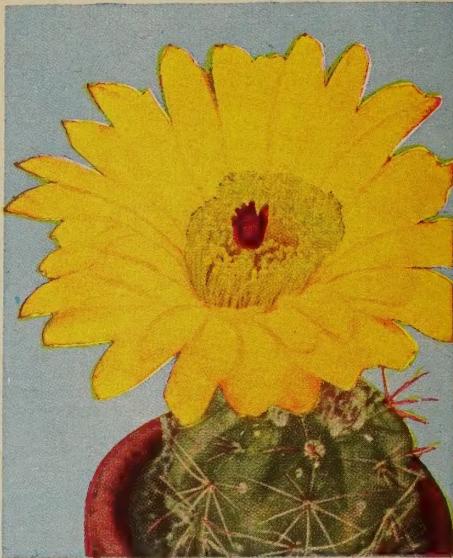
Pink flowered Pincushion forming clusters by the heads forked into two or three thus making compact rounded specimens, with age. The rose-pink blossoms have a stripe down each petal and though small there are many of them. 2½"-3½" \$1.....

35c**MAMILLARIA DURISPINA**

A nice, rather large, variety with brown and buff spines and pretty red flowers during spring and early summer. Plants may reach 10" in height 3"-4" in diameter. Give it a rich soil and full sunlight to flower best. Nice plants 1½"-2".....

50c**MAMILLARIA COLOMBIANA**

A very rare Pincushion and the one found farthest south in South America. Pale yellow spines the nipple axils filled with wool. A pretty plant for the collector. The white felted crown is conspicuous, the flowers pink. Give liberal culture. Large 2"-2½".....

\$1.25**INDIAN HEAD**

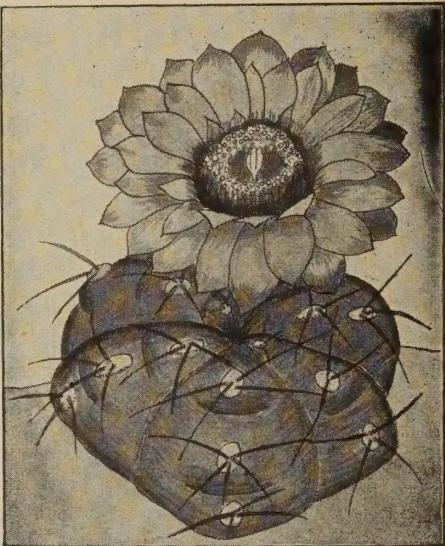
Notocactus ottonis has a long spring blooming period. The buds appear as cocoa-brown twists of wool which swell into glittering yellow blossoms. The red tipped stigma surrounded by minute yellow stamens which roll down when a bee lands in their midst. Easily grown. Small 35c. 2 years.....

50c**OLD MAN OPUNTIA**

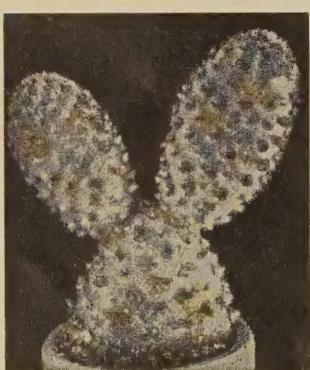
Opuntia vestita is from the high Bolivian alto-plano. Plants may grow to a foot in height the stems an inch in diameter forming clusters. Young stems bear leaves which later drop. The curly white hairs increase in density toward fall. Flowers are a lovely, satiny ruby red. Prefers a very sandy soil and a sunny location.....

40c**GOLDEN EASTER LILY**

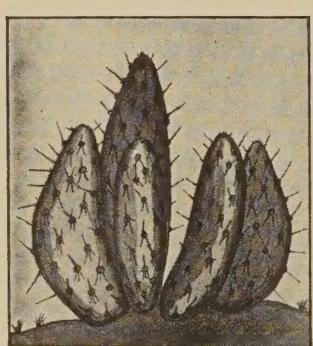
Handsome bright yellow blossoms opening freely in the spring. Lobivia aurea is one of the choice cacti for pots. A vigorous grower liking a good loam soil with moderate waterings and almost full sun. It may grow to 2½" in diameter. Small 35c. Nice flowering.....

50c**OURSEL'S CHIN CACTUS**

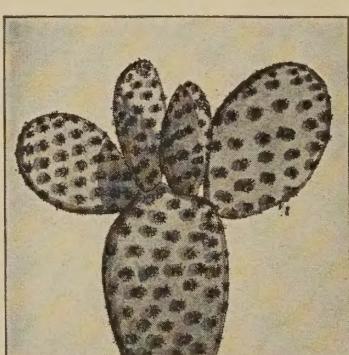
A vigorous plant that may reach 3" in diameter. Flowers are large, opening widely ranging from white to pink in color. Most attractive. Gymnocalycium ourselianum is a strong rooted plant producing several flowers in a season. Large 6 years old 2"-2½" \$1.50. Small 35c. Nice.....

50c**BUNNY EARS**

An old favorite the areoles filled with bright golden glochids. Do not handle! The dwarf plants are quite attractive. To keep bright give full sun. Grows easily.....

35c**DOMINOES**

Opuntia erectoclada is a dwarf Argen廷ian species with trapeziform pads and brown spines. Likes a fertile sandy loam and a light or sunny place. To keep bright give full sun. Grows easily.....

40c**CINNAMON CACTUS**

A very pretty variety of the Bunny Ear group. Opuntia rufida may be dwarfed by keeping in poor, sandy soil in a sunny place. Do not handle as the glochids easily come off. Branched.....

35c**THIMBLE TUNA**

A dwarf from the Andes, Tephrocactus microsphaericus, forms small, low clusters of fat round stems. Flowers bright ruby red. Easily grown.....

35c